



Old Main
Building
1859

LIBRARY OF
THE PENNSYLVANIA STATE COLLEGE
PENN STATE COLLECTION

PENNSTATE



UNIVERSITY
LIBRARIES



Digitized by the Internet Archive
in 2012 with funding from
LYRASIS Members and Sloan Foundation

<http://archive.org/details/facultybulletinpv4447penn>



Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday.

Calendar

Friday, Sept. 14

Fall semester registration continues, 8 a.m. to 12 noon and 1 p.m. to 5 p.m.

Orientalation program for new clerical and service employees. Clerical employees 9 to 10:30 a.m., service employees 10 to 11:30 a.m. 203 Willard Hall.

Saturday, Sept. 15

Fall semester registration continues, 8 a.m. to 12 noon.

Sunday, Sept. 16

Chapel, 10:55 a.m., Schwab Auditorium, The Rev. Luther H. Harshbarger, University Chaplain.

Dedication of Helen Eakin Eisenhower Chapel, 2 p.m.

Monday, Sept. 17

Fall semester classes begin, 8 a.m.
Independent Meat Packers Association meeting.

Conference on Efficient Terminal Management.

Workshop on Technical Report Writing.

Tuesday, Sept. 18

Orton Foundation Lecture by Dr. J. A. Hedvall, director of the Silicate Research Institute, Gothenburg, Sweden, Min. Sci. Auditorium, 4 p.m.

Wednesday, Sept. 19

Pennsylvania School Study Council meeting.

Thursday, Sept. 20

Mineral Industries colloquium, 4:15 p.m., Min. Sci. Auditorium. Prof. E. N. daC. Andrade, FRS., consultant to the British Broadcasting Corp. and honorary foreign secretary of the Physical Society. Subject: "Newton."

Dr. Walker Moves To Presidency October 1

Dr. Eric A. Walker officially moves into the presidency of the University on October 1. His predecessor, Dr. Milton S. Eisenhower, will report about the same date to his new position as president of Johns Hopkins University, Baltimore, Md.

Dr. Walker, formerly dean of the College of Engineering and Architecture and vice-president of the University since mid-year was appointed to the presidency by the Board of Trustees on June 29. Dr. Eisenhower had resigned earlier, his resignation to take effect no later than January 1, 1957.

Public Health Service Announces Research Grants

Grants totalling more than \$183,200 have been made by the U. S. Public Health Service to support research studies and a training program at the University.

One grant provides for the continuation of a program of traineeships in mental health and for the establishment of two teaching grants. The program is directed by Dr. C. R. Carpenter, head of the department of psychology, and Dr. William U. Snyder, professor of psychology.

Ten research projects will also be aided by grants. These include:

Analysis of mist and dust collection equipment, by Dr. William E. Ranz, professor of engineering research.

Treatment of sewage and industrial wastes, by R. Rupert Kountz, professor of sanitary engineering.

Polarography of oxygen in viscous solutions, by Dr. Joseph Jordan, assistant professor chemistry.

Bone density studies, by Dr. Harold Schraer, research associate in physics.

The mechanical structure of red blood cells, by Dr. Eugene Ackerman, associate professor of physics.

Decision-theory approach in personality research, by Dr. Sidney Siegel, associate professor of psychology.

X-ray crystal analyses of metabolic factors and other factors of medical importance, by Dr. Raymond Pepinsky, research professor of physics.

Effects of irradiation on the inheritance and expression of quantitative characters, by Dr. Donald F. Mitchell, assistant professor of genetics.

Reception of sound waves by insects, by Dr. Hubert W. Frings, professor of zoology.

Dr. Eisenhower To Speak To Faculty Thursday

Dr. Milton S. Eisenhower, at the invitation of the Faculty Advisory Council and the Council on Administration, will address the faculty at 4:10 p.m. Thursday, Sept. 20, in Schwab Auditorium.

Faculty Bulletin Has New Format, Purpose

With this issue, *Faculty Bulletin* acquires a new format and a new purpose. Henceforth, this publication will contain weekly interpretive and feature stories in addition to the usual official notices. It will be four pages for most issues, and six or eight pages when necessary.

The publication *Campuscope* will be supplanted by a magazine similar in many respects to *Campuscope* but devoted primarily to non-academic staff members. It will be a 16-page, bi-monthly magazine, mailed to non-academic staff members and to those faculty members whose work is associated with non-academic staff members.

However, it will also be mailed to any faculty members who make a specific request, in writing, to the Department of Public Information, 313 Old Main. It should be noted that many of the interpretive and feature stories which formerly appeared in *Campuscope*, but which had particular interest to the academic staff, will in the future appear in *Faculty Bulletin*.

Motion Picture Courses Announced

Two courses in motion pictures are being offered this year for the first time. The courses are designated Theatre Arts 70 and 71. The first course starts with the fall semester.

The department of theatre arts and the Motion Picture and Recording Studio of General Extension are co-operating in the two courses. The program is designed to train personnel for the production of teaching aids, for television work, including advertising material; and for the production of informational and business films.

Frank S. Neusbaum, director of the Motion Picture and Recording Studios, will teach the new courses. Dr. Walter H. Walters, head of the department of theatre arts, announced the courses.

Central Library

Vol. 44, No. 1

Miss Mildred Ailman

Sept. 14, 1956

Penn State Collection

Two Senate Committees Make Annual Reports

The annual reports of the Senate committees on Student Affairs and Educational Policy were as follows:

STUDENT AFFAIRS

The Senate Committee on Student Affairs met each week during the academic year. Dr. Kent Forster served as Chairman during the second semester leave of absence of Dr. Henry Brunner. In addition to considering many matters of a routine nature, the following items are of special note:

During the year the Senate approved the recommended creation of a new Subcommittee on Academic Discipline, and adopted three new recommended rules on academic honesty recommended by the committee. The new rules are W-8, W-9, and M-10.

The Senate also approved a recommended change in membership of the committee, adding two students—the Vice-President of the Student Government Association and the President of the Women's Student Government Association.

The Committee also found dissatisfaction with present rules governing absence from class, and referred the matter to the Senate Committee on Educational Policy for study.

The Subcommittee on Organization Control studied petitions from several new groups and made recommendations leading to the chartering of the following:

Trion, Gamma Sigma, Delta Phi Alpha, Sigma Tau Delta, World Agricultural Service Society, Interlandia Folk Dancers, Student Landscape Society, Cadet Military Council, Koinonia, Pi Sigma Upsilon, Penn State CAP Squadron 1303, and the American Rocket Society. One new publication was approved, the *Prospector*, published by the Mineral Industries Student Council.

There were many meetings of the variously constituted disciplinary committees, resulting in the suspension of 19 students, and probationary status for 30.

The Subcommittee on Social Affairs worked on a re-evaluation of its purposes and instituted a social calendar for campus-wide control of events to prevent conflicts.

H. S. Brunner, Chairman
K. Forster, Vice-Chairman
I. Fife
M. E. Fuqua
E. P. Nye
R. Bahrenburg
W. Clark
D. Zimmerman
P. O. Weston
F. J. Simes
W. E. Kenworthy, Secretary

EDUCATIONAL POLICY

The Senate Committee on Educational Policy has held twenty-five or more meetings since June, 1955. Since the report to the Senate on a Bureau of Institutional Analysis, three additional reports have been presented: one, a progress report of the Sub-Committee on Quantitative Thinking (January 5, 1956); the second, the Report by the Sub-Committee on The Superior Student (May 31, 1956); the third, Progress Report on Research of the University (May 31, 1956).

During the year the Committee has also:

1. Worked with the Military Instruction Committee to help clarify the place, purposes and objectives of the military training program at the University. It studied a comprehensive report of that Committee and met with some of its members to propose further problems to be considered. It recently received another report of that Committee which it will study as soon as possible.
2. Initiated studies by proper sub-committees on
 - a. English Competence of Students
 - b. Course offerings at the University (The activation of this subcommittee awaits the allocation of funds to support the investigation it will carry on.)
 - c. Housing and Facilities at the University
 - d. Improvement of Instruction
 - e. Education of Women (This subcommittee has filed a comprehensive report which will be presented to the Senate in the fall.)
 - f. The Superior Student
 - g. Improvement of the Scholarly Atmosphere in the University
3. Examined various reports from specific colleges.
4. At the June, 1955 meeting of the Senate

Items of Interest

Dr. Merrell R. Fenske, director of the Petroleum Refining Laboratory, will present two papers in Venezuela during a two-week visit from Sept. 24 to Oct. 5. He will talk before the pipe line and production research group in Maracaibo and the board of directors of the Creole Petroleum Co. at Caracas on the subjects of the chemistry of petroleum refining and the production of petrochemicals.

* * *

A new physics textbook for engineering students titled "Atomic And Nuclear Physics" will be published this month. It was prepared by four members of the staff of the department of physics, Converse H. Blanchard, Clyde R. Burnett, Richard G. Stoner and Robert L. Weber.

* * *

Dr. J. A. Hedvall, director of the Silicate Research Institute at Chalmers Technical University, Gothenburg, Sweden, widely known for a lifetime of research on solid state reactions, will give an open lecture in the Mineral Sciences Auditorium, Tuesday, Sept. 14 at 4 p.m. Dr. Hedvall is the Orton Foundation Lecturer.

Board Announces New Building Names

The Board of Trustees has approved names for the four new home management houses on College Ave. and for the Plant Industries Building.

Plant Industries will be known as Tyson Hall, honoring the late Chester J. Tyson, a trustee of the University from 1912 until his death in 1938. Tyson was very much interested in the work in horticulture. The building provides facilities for the departments of horticulture and agronomy.

The home management houses will honor Florence Benedict, first woman to receive a degree in home economics at Penn State; Amy G. Gardner, professor and chairman of the division of home art at her death in 1950; Catherine Beecher, outstanding pioneer in home economics education; and Myra Dock, outstanding member of the State Federation of Women's Clubs and who had an influential part in the establishment of home economics at Penn State.

there was referred to us the question as to the advisability of the establishment of a standing Senate Committee on Research. None of us seemed to be aware of this until it was called to our attention very recently. We have considered it briefly but feel unable to make a recommendation about this until we have given it considerably more thought. We hope to make a recommendation on the subject in the fall.

Respectfully submitted,
The Committee on Educational Policy

14 Resignations Announced

Resignations of 14 faculty members have been announced. They include:

Dr. Ralph O. Gallington, professor of industrial arts education, to head the department of industrial education at Southern Illinois University.

Dr. Robert R. Robinson, professor of soil technology, to become a project leader in the U.S.D.A. at Beltsville, Md.

Dr. Megumi Tashiro, visiting professor of ceramic technology, to return to his native Japan.

Dr. Edward J. Smith, associate professor of farm management, to accept a research position in the U.S.D.A. in Washington, D.C.

Emil W. Lehmann, associate professor of engineering research, to accept a position at the Forrestal Research Center, Princeton University.

Dr. Roland H. Good, Jr., associate professor of physics, to accept a position at Iowa State College.

Dr. Erwin E. Liebhafsky, associate professor of economics, to accept a position at Texas A. and M.

Helen L. Denning, associate professor of nutrition and health extension, to travel in Europe.

George M. Cunningham, research associate in engineering research, to become a project engineer at Corning Glass Co.

Andre H. McHose, research associate in engineering research, to enroll for graduate work.

Dr. Sidney J. Buckwold, research associate in mineralogy, to accept a position at New Mexico M. and T.

Joseph A. Perkins, Jr., business manager, Southeastern Area of General Extension, to become business manager of Cheltenham Twp. School District.

Bernice G. Chambers and Dr. Charles H. Stember, both associate professors of clothing and textiles.

Building Allocations By GSA Top \$10 Million

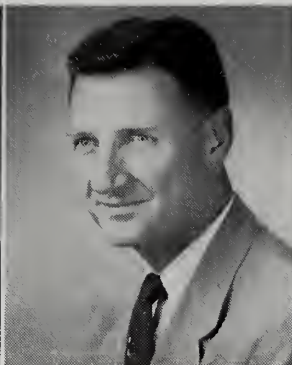
Allocations for building construction on campus totalling \$10,625,000 were made by the General State Authority on July 25. Architects will be designated to work with University and General State Authority officials to prepare plans for the buildings before bids are requested and contracts awarded.

The program includes construction of a new engineering building; a Petroleum Refining Laboratory to replace the present structure to be removed; a meat processing and swine laboratory, turkey brooder and breeding houses; completion of Home Economics South; and construction of a military, air and naval science building.

The new engineering building, largest of the proposed units, will extend from Burrowes Road to the present Petroleum Refining Laboratory and will join the present Main Engineering Building. The military, air, and naval science building is to be located along Route 322, north of the Service Building area.



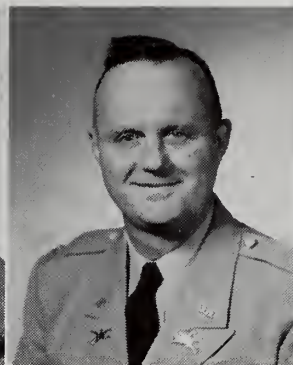
DR. M. A. WILLIAMSON
Engineering



DR. J. A. RACKLEY
Education



DR. F. G. BRICKWEDDE
Chemistry and Physics



COL. A. W. KOGSTAD
Army ROTC



LT. RENEE RUBIN
WAF Program

120 APPOINTMENTS TO FACULTY ANNOUNCED

THREE deans, a commanding officer of the Army ROTC unit, and the first woman to be assigned to the department of air science were among the 120 appointments to the faculty effective since July 1.

The three new deans are Dr. John Ralph Rackley, College of Education; Dr. Ferdinand G. Brickwedde, College of Chemistry and Physics; and Dr. Merritt Alvin Williamson, College of Engineering and Architecture.

Col. Arthur W. Kogstad will fill the position of commanding officer of the Army ROTC unit on campus, a position held by Col. Richard F. Reidy until his death in June.

Lt. Renee Rubin is one of 10 highly qualified WAF officers selected by the Air Force for assignment to colleges and universities where the women's ROTC program is being introduced this fall. She will assist Col. Daniel F. Riva, professor of air science, in the supervision and operation of the new program.

Dr. Rackley, who succeeds Dr. Marion R. Trabue as dean of Education, has been serving with the U.S. Office of Education since last October, while on leave from his position as dean of Education at the University of Oklahoma. He received his bachelor and master of arts degrees, both in history, from the same school. He obtained his doctor of philosophy degree with a major in history from George Peabody College, Nashville, Tenn., and has also studied at Oklahoma Baptist University, Northwestern State College, Vanderbilt University and Yale University.

Dr. Rackley was dean of the College of Education at Oklahoma since 1949 and previously had been dean of Teachers College of Connecticut, from 1946 to 1949. During World War II, Dr. Rackley served as a lieutenant and captain of the Signal Corps and continues to serve as a major in the U.S. Army Reserve. Other posts he has held include those of personnel consultant for the Oklahoma State Department of Health and commissioner of public works, New Britain, Conn.

Dr. F. G. Brickwedde

Dr. Brickwedde was chief of the Heat and Power Division, National Bureau

of Standards from 1946 until his appointment here. He joined the Bureau in 1925 as research associate in colorimetry and from 1926 was chief of the Low Temperature Laboratory. From 1946 to 1952 he was also chief of the Thermodynamics Section, which he organized.

During the past 11 years, Dr. Brickwedde has been interested in the improvement of the standards of rheology and the octane rating of automotive gasolines. He has collaborated in the publication of more than 50 scientific papers on his work with the Bureau.

In 1931-32, Dr. Brickwedde cooperated with Dr. Harold C. Urey and Dr. George M. Murphy in the discovery of deuterium. In 1950-52 he planned the laboratory and building and designed the liquefiers for the largest cryogenic laboratory in the world, at Boulder, Colorado.

Dr. Brickwedde received the Hillebrand Prize of the Chemical Society of Washington in 1940 and in 1941 the Award for Outstanding Achievement in Science by the Washington Academy of Sciences.

Educated at Johns Hopkins University, where he received the bachelor degree in chemistry and the master and doctor of philosophy degrees in physics, Dr. Brickwedde has been part-time professor of physics at the University of Maryland. He also served as consultant to the Los Alamos Scientific Laboratory since 1948 and as consultant to the radiation laboratory of the University of California since 1952.

Dr. M. A. Williamson

Dr. Williamson succeeds Dr. Eric A. Walker as dean of the College of Engineering and Architecture. He comes to the University from The Burroughs Corp., where he was manager of the Research Division. He had also served as special lecturer in research administration at the University of Pennsylvania.

His degrees of bachelor of engineering, master of science, and doctor of philosophy were all received from Yale University, in metallurgy. He also holds a master of science degree in aeronautics from California Institute of Tech-

nology and a master of business administration degree from the University of Chicago.

Dr. Williamson worked as a metallurgist from 1937 to 1942 for the Scovill Mfg. Co., Waterbury, Conn., and for the next two years with the Remington Arms Co. He was on active duty as ensign and later lieutenant with the U.S. Navy from 1944 to 1946. He was named director of technical research for the Solar Aircraft Co. in 1946 and from 1948 to 1952 was associate director of development, research department, of the Pullman Standard Car Mfg. Co. He joined the Burroughs Corp. in 1952.

He is the author of a number of articles in the fields of rockets, metallurgy and materials.

Col. A. W. Kogstad

Col. Kogstad is a veteran of Normandy, the European theater and the Korean campaign. He has seen extensive service as assistant to General Mark Clark.

He received his bachelor of science degree in business administration from Loyola University and worked toward his master of business administration degree at Northwestern until 1941. He received a commission in the cavalry school at Fort Knox in 1942. His service has since included tours of duty in Europe and in the Far East. He was a junior staff officer on the U.N.'s Armistice Commission and was chief of the tactics division at Fort Knox, Ky., before his assignment to the campus. His honors include five battle stars of the European theater, the Legion of Merit with oak leaf cluster, the Bronze Star with two clusters, Commendation Ribbon, and the French Croix de Guerre with gold and silver star.

* * *

The following list of other appointments effective since July 1 is only partial and others will appear in succeeding issues:

Professors

Carl O. Clagett, Agronomy
Francis P. Dwyer, Chemistry
I. W. Cole, director,
School of Journalism

Continued on next page

New Appointments—

Continued from page three

Rajjeshwar Mittra,
Electrical Engineering (visiting)
Ernest H. Ludwig, Bacteriology
John W. Mastalerz, Horticulture
Carlton F. Taylor,
Plant Pathology Extension

Associate Professors

Roger R. Yoerger, Agr. Engineering
Howard D. Bartlett, Agr. Engineering
Alfred Blackador, Meteorology
William Henry Martin, Economics
Ben Morgan, Animal Husbandry Ext.
Will E. Mason, Economics
George U. Oppel,
Engineering Mechanics
Walter Katkovsky, Psychology
Edward O. Buss, Poultry Husbandry
Norman C. Pendered, Industrial Arts
Jacob J. Kaufman, Economics
Ruth I. Godfrey,
Hotel and Institution Administration

Assistant Professors

Edward F. Sullivan, Agronomy
William G. Wood,
Engineering Mechanics
Calip M. Arkilio,
Engineering Mechanics
Joseph V. Smith, Mineralogy
Anthon J. Mastro, Accounting
William J. Ross, Electrical Engineering
Lee Schrest, Education
Leland L. Beik, Marketing
Rodney O. Martin, Agr. Engineering
Hugh B. Urban, Psychology
James H. Copp, Agr. Economics
James W. Boodley, Agriculture
Edgar M. Lehrman,
Romance Languages
George J. Young, Fuel Technology
Dexter H. Putnam,
Ag. and Home Ec. Ext.
James W. Mettler,
Mathematics (Extension)

Instructors

John D. Vairo, Journalism
Stanley Weintraub, English Literature
Jerry W. Standard, Philosophy
William B. Swim,
Mechanical Engineering
Margaret B. Matson, Sociology
Blanche M. Shamma, Speech
James H. Burden, Music
June Carol Greene, Child Development
William H. Kelton, Veterinary Science
Eugene R. Manning,
Chemistry (Extension)
Ivan S. Palmer, Agr. and Bio. Chemistry
Guido H. Stempel, Journalism
Johan F. Bratt, Engineering Mechanics
Stuart H. Frost, Art
Marvin S. Schindler,
English, German (Extension)
Benton Bristol, Agr. Education
William J. Halm,
Mathematics (Extension)
Harold E. Neigh, Agr. Economics
Alfred C. Mudrich,
Mathematics (Extension)
Zakaria I. Sabry,
Agr. and Bio. Chemistry
Edwin A. Smith,
Chemistry (Extension)
John Cable, Vet Science

Melvin R. Willis,
Chemistry (Extension)
Henry F. Enos, Agr. and Bio. Chemistry
John M. Holleran,
Mathematics (Extension)
Henry S. Panfil, Industrial Engineering

Research Associates

Ann Marie Bystrom, Mineral Sciences
Hisao Kuroya, Physics
Egon T. Degens, Mineral Conservation
Mitsue Koizumi, Geochemistry
Mahmoud Rustom, Ceramic Technology
Sigmund Urnes, Ceramic Technology
Harold L. Ergott, Electrical Engineering
Alan Martin Jacobs, Research Reactor
Yajira Morita, Engineering Research
Jasti V. Rattayya, Engineering Research
Forrest J. Remick, Research Reactor
Tadashi Sasaki, X-Ray Laboratory
Tryggve Baak, Ceramic Technology

Research Assistants

Frederick P. Glasser, Geochemistry
Allen E. Leybourne, Pet. Ref. Lab.
Joseph M. Perez, Pet. Ref. Lab.
Danuta Hiz, Engineering Research
Alton F. Armington, Fuel Technology
Thomas Falkie, Mining Engineering
James Fetterman, Mineral Preparation
Peter J. Wyllie, Geochemistry
Ronald L. Broadhead, Fuel Technology
Vincent G. Hill, Geochemistry

Assistant County Agents

John Sammons
Robert C. Church
Glen G. Carter
Thomas E. Piper
William E. Shute
Harold T. DuBois
William A. Reagan, Jr.
Charles P. Leaver
George R. Silvis
H. Wallace Cook
Edgar C. Sobers
Clarence R. Bryan
Everett L. Himes
Charles M. Stanislaw
Henry M. Berger
Charles E. Stewart
John E. Brickett

Assistant Extension Home Economists

Eleanor J. Gruber
Elizabeth Snowberger
Barbara Ann Mekis
Sara L. Faust
Hester A. Shockey
Jane Irene Ellenberger
Patricia E. Deal
Mary L. G. Williams
Patricia Jean Pifer
Anna Mae Thomas
Shirley A. Lauffer
Nancy E. Bower

Associate Extension Home Economist

Lura J. Leitzel

Post Office Hours Noted

Faculty members are reminded of the new schedule for the post office in the Hetzel Union Building. Windows of the station will open at 8:30 a.m. each week-day and will close at 5:30 p.m. Monday through Friday and at 12:30 p.m. on Saturday.

Bowling Alleys Open

Bowling alleys in Recreation Building will open Saturday, Sept. 15 for non-league bowling. League bowling will begin Monday, Sept. 24.

Staff members who wish to form a team for league bowling each Friday evening may join a league now in formation. A six-team league is being organized. Call Ext. 635 for complete information.

Middle States Association Reaffirms Accreditation

The accreditation of the University's program was reaffirmed by the Middle States Association of Colleges and Secondary Schools earlier this year. Penn State was one of 19 universities in Pennsylvania, Maryland, New York and New Jersey whose accreditation was confirmed.

Rev. L. J. McGinley, S.J., secretary of the Middle States Commission, made the announcement.

Emeritus Rank Conferred

The rank of professor emeritus has been conferred on two faculty members.

Dr. Harrison H. Tietz, named to the faculty in 1926, was designated professor emeritus of anatomy and physiology, effective Oct. 1, the date of his retirement.

Joseph C. Nageotte, who retired Aug. 1 after serving on the faculty since 1929, has been appointed professor emeritus of dairy science extension.

Grants-in-Aid Announced

The following grants-in-aid from the Central Fund for Research have been approved for the fiscal year July 1, 1956 to June 30, 1957 by the Council on Research. Grants for the Colleges of Chemistry and Physics, Education, Home Economics, Liberal Arts, and Mineral Industries will be announced in next week's issue of *Faculty Bulletin*.

College of Agriculture

W. T. Butz, Problems of International Understanding and World Affairs; H. A. Wahl, The Flora of Pennsylvania: A Comprehensive Account of the Plant Life of the Commonwealth.

College of Business Administration

J. F. Bradley, Trends in Savings Held by Financial Institutions Operating in Pennsylvania.

College of Engineering and Architecture

C. A. Anderson, A Comparison of the Accuracy of Film Analysis to an Electronic Touch Detector for the Measurement of Elemental Body Motion Times; W. H. Armstrong, The Ability of Ceramic Tools to Cut Chromemolybdenum Steels; G. L. Crossley, Vertical Radio Antenna for Variable Frequency Applications (Broad Bands Antenna); W. H. Gotolski, Effect of High Temperatures on the Rheological and Structural Properties of Asphaltic Concrete Pavements; D. E. Hardenbergh, Study of the Statistical Aspect of Fatigue Data.

Ling-Wen Hu, Creep of Metals Under Varying Stresses; Joseph Marin, Creep-Stress-Strain Relations for Combined Stresses; Charles Marsh, Night Visibility on Streets and Highways; M. S. Osborne, A Study of the Architecture of the Colonial and Federal Periods in Eastern United States; R. K. Vierck, Effect of Wing Flexibility on Forces in Aircraft Landing Gear.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday.

Calendar

Friday, Sept. 21

Workshop for PSEA Public Relations Committee.

Saturday, Sept. 22

Church night in community churches. Leadership Training Conference.

Sunday, Sept. 23

Chapel, 10:55 a.m., Schwab Auditorium. Dr. T. Z. Koo, visiting professor of oriental studies, Bucknell University, formerly secretary of the World Christian Student Federation.

Monday, Sept. 24

Faculty Luncheon Club, 12 noon, Dining Room "A" of Hetzel Union Building. (Tickets at main desk, \$1.25). Dr. Robert G. Bernreuter, director of the Division of Counseling, will explain the new service.

Tuesday, Sept. 24

Talk by Lt. Gen. Walter L. Weible, deputy Army chief of staff for personnel and administration, on global commitments of the Army and the leading role played by the Army in preventing World War III. Schwab Auditorium, 8:30 p.m. The public is invited.

Wednesday, Sept. 26

State Officers Leadership Training Conference, Future Farmers of America. Ends Sept. 28.

Physics Colloquium, 4:10 p.m., 117 Osmond Laboratory. Dr. K. Mendelssohn, Clarendon Laboratory, England, will speak on "Some Problems in Low Temperature Physics."

AEC Documents Available For Use In Pattee Library

Thousands of unclassified reports and other documents received through the Atomic Energy Commission are now available for use in the Pattee Library.

The Library was designated as one of 44 depository libraries in the United States on recommendation of Rep. James E. Van Zandt. The initial shipment was made last December.

The first group of nuclear scientists from foreign countries trained here under the AEC program this year used the reports and documents extensively.

The collection now includes nearly 10,000 reports and 11,000 microcards. The detailed index system is located in the Reference Room of the Library. The collection will serve faculty and students.

Total Registration Nears Record 16,000

By close of registration on Saturday, Sept. 22, registration figures for the fall semester had reached 15,528, and nearly 16,000 were expected to complete registration. The breakdown of enrollment, along with final registration figures, will appear in a future issue of Faculty Bulletin.

Enrollment on campus had reached 12,814 on Saturday, with 2601 registered at centers and 113 at Mont Alto. Campus enrollment last year at the corresponding time was 12,131.

Home Ec Food Service Begins Monday, Sept. 24

Food service in the Home Economics cafeteria and Maple Room will begin with luncheon in the cafeteria on Monday, Sept. 24. Cafeteria lunch hours are 11:50 to 12:30, Monday through Friday.

Dinners will be served Tuesday, Wednesday and Thursday of each week at 2:30 to 6:30 p.m. There will be no service in either the cafeteria or Maple Room on Monday evenings.

The food is planned, prepared and served by classes in hotel and institution administration.

Eight Fellowships Are Established

Grants from industries and foundations have made possible the establishment of eight fellowships, including:

A \$5400 grant by the Alfred P. Sloan Foundation, Inc., to support fundamental research in chemistry by Dr. Robert W. Taft; a \$2881 grant by The Ford Foundation for a doctoral fellowship in the College of Business Administration; a \$2000 grant by Sylvia Foundation for a graduate fellowship in the College of Mineral Industries.

A \$2400 grant by Davison Chemical Co. for a two-year fellowship in mineral preparation engineering; a \$600 grant by Stearns Magnetic, Inc., for fellowship program in mining engineering; a grant by the Rochester and Pittsburgh Coal Co., Indiana, for a two-year fellowship in mineral engineering.

An \$1800 grant by Michael Baker Jr., Inc. for graduate fellowship in the public administration program of the department of political science; a \$2400 grant by Youngstown Sheet and Tube Co., for a graduate fellowship in mining engineering.

Campus, Town Stations Cooperate on Broadcasts

Selected student radio programs, originating with campus station WDFM will soon reach a countywide audience under a new cooperative plan with station WMAJ.

Starting Oct. 1, programs presented by students and faculty between 8 and 9:55 p.m. will go out over the facilities of A.M. station WMAJ. WDFM's broadcasts are entirely on FM.

The plan has been made possible by a special line WMAJ has installed and will maintain connecting the two stations. Other special events on campus will also be carried by WMAJ wherever possible, occasionally coming through a remote console donated to the HUB by WMAJ.

Guggenheim Exhibition Of Paintings Now at HUB

A collection of 11 water colors, oil paintings and drawings from the Guggenheim Museum in New York has been loaned to the University and is now on exhibition in the Hetzel Union Building, Francis E. Hyslop, chairman of the University Art Advisory Committee, has announced.

The paintings and drawings are of the abstract and semiabstract style of the twentieth century, all by European artists. Pablo Picasso (Spanish), Vasily Kandinsky (Russian), Paul Klee (Swiss), Askar Kokischka (Austrian), Fran Marc (German), Paul Nash (English), Georges Valmier (French) and F. Vordemberge-Gildewart (German) are represented in the exhibition.

The exhibition will remain on the campus for an extended time.

Extension Courses Offered

Courses in elementary typing and shorthand, welding, and accounting for area residents will be offered this fall by General Extension. Classes will be conducted in the evening. Information about registration and costs may be obtained from Wayne R. Bechdel, Extension Conference Center, or by phone Extension 2517.

Senate Committee On Athletics Reports

In accordance with the regulations of the Senate, the Committee during the year 1955-56 performed its regular functions in determining eligibility of athletes for intercollegiate competition and the managers of athletic teams, approving intercollegiate athletic schedules, and the issuing of excuses for athletic trips in the cases of approved student participants.

In addition, the Committee initiated or supported the efforts of other committees on the campus to reorganize procedures which would in any way facilitate the determination of eligibility of students or prevent infringements of the eligibility rules. In this connection, the Chairman on October 20, by invitation, attended a meeting of the Advisory Committee, Division of Intermediate Registration, in order to propose a tightening of the probation rules of that division. As a consequence, the Advisory Committee adopted procedures for D.I.R. with regard to placing students in probationary status which are consistent with the various colleges. This action by the Advisory Committee eliminates the loophole which formerly existed for possible evasion of the eligibility rules by students who, on probation in their respective colleges, could transfer to the Division of Intermediate Registration where probation other than that imposed by Senate rules did not exist.

With regard to intercollegiate athletic schedules, the Committee voted, on recommendation of the Director of Athletics, to limit regularly scheduled basketball games to a total of 22 for the season. Although the rules of the National Collegiate Athletic Association limit basketball games in a season to 26, it was deemed advisable in the case of Penn State to restrict this further to 22 in order to maintain a reasonable limit on the student hours of absence from the campus in this sport.

By letter to the Chairman, Committee on Academic Standards, their attempt to standardize student academic actions on a University-wide basis was heartily endorsed. Could this be accomplished to the satisfaction of all colleges concerned and without lowering standards, the work of this committee in determining eligibility would be tremendously simplified.

The determination of "normal progress" as required by the eligibility rules of the National Collegiate Association has always been difficult for the Committee. It has heretofore been necessary to contact the deans of the various colleges for information concerning the progress of a student as set forth by the "H" rules of the Senate Regulations. This process has been time-consuming and in some cases has resulted in participation, for a while, of students in intercollegiate athletics who would otherwise have not been eligible. The Committee on Procedures this year has taken this question under consideration and with the full support of the Committee on Athletics, has recommended a procedure which will work to the benefit of all concerned. It is proposed in the future that the Registrar, by tabulating the requirements in the various curricula, determine the status of a student as to the "H" rules and supply the information to the Committee on Athletics together with other data customarily supplied. This will result in streamlining the method of securing information with regard to "normal progress" and will both reduce the delay which was formerly experienced, and the misunderstanding which had existed when a relatively large number of people had to make this determination independently.

The Committee considered and voted approval for this institution on the question of admitting four new institutions to membership in the N.C.A.A.

Members of the Committee throughout the year attended the meetings of the Athletic Advisory Board, of which they are automatically members.

N. R. SPARKS
Chairman

Long Distance Calls Are Modified

Changes in the administrative switchboard have simplified placing of long distance calls. Faculty members are reminded that these calls should be made by dialing "9" to obtain an outside trunk, then dialing the red "O" to reach the Bell long distance operator. The procedure from that point is as previously.

Items of Interest

A joint program in connection with the basic research on the preparation, atomic structure, and properties of synthetic clay materials is being undertaken by the geochemistry and ceramics technology departments. Supported by a grant from the American Petroleum Institute, the work will be directed by Dr. George W. Brindley, head of the department of ceramic technology and Dr. Rustom Roy, associate professor of geochemistry.

A \$500 scholarship has been established by the Haws Refractories Co., Johnstown, to encourage competent students in the study of ceramics. Scholarship, character and need of the student will be considered in making the award.

Dr. Joseph F. Krawiec, assistant professor of clothing and textiles research, has begun a series of short courses for institutional laundrymen, in a program sponsored jointly by the Ellen H. Richards Institute and the State Departments of Welfare, Public Instruction, Justice, Health and Military Affairs. The courses are being held in the Philadelphia State Hospital.

Dr. Albert Christ-Janer, director of the School of the Arts, will also serve as acting head of the department of art, one of the three departments in the School.

The University's Navy ROTC unit will be the first of 24 such units honored throughout the country on "Navy Hour," a nationwide radio program from 1:00 to 1:30 p.m. Saturday over the American Broadcasting Company network. A transcription of the program will be heard on Station WMAJ on Sept. 29 following the broadcast of the Penn State-Pennsylvania football game at 4 p.m.

New Procedures Simplify Travel Expense Payments

Regulations designed to simplify administration and procedures for reimbursement of University personnel for travel expenditures went into effect July 1.

As approved by the Board of Trustees, the revised regulations fix the maximum for meals and lodging at \$12 per day except for travel to New York City, Chicago, and Washington, D. C., where the rate of \$15 per day will apply.

Only exceptional requests requiring expenditures in excess of the allowances permitted under the regulations will be submitted to the Comptroller, hereafter. Purchase orders no longer may be used by individuals for the payment of travel, meals or lodging charges.

Faculty Quotes . . .

(From the speech of President elect Eric A. Walker to new students during Orientation Week.)

On the privilege of attending Penn State

"The State is paying about \$700 a year for every one of you young men and women. You have a scholarship paid for by the State. . . . The State is paying that so that some time, somehow, this will be returned because we have better citizens. . . . For every one here, there is at least one person who is not here tonight who wanted to be here and could not make the grade. In effect, there is someone who wants to take your place."

* * *

On what it means to attend college

"We do not intend to spoon feed you. . . . We don't aim our curriculums at the average person. You are the person who is in charge. You have to learn to study, you have to learn how to learn."

* * *

On honesty

"We expect you to be scrupulously honest. There is no such thing as a dishonest professional man or woman because in being dishonest they lose that title."

* * *

On the student as a representative of Penn State

"We expect that you will not disgrace Penn State. At home you are Penn State. Anything the folks at home disapprove of at Penn State they identify with you."

Special Grants Support Research in Agriculture

Four research projects in the College of Agriculture will be supported by special grants recently announced.

The National Science Foundation has provided funds for two projects, including a study of polyphosphate metabolism of plants, to be conducted by Dr. Andrew A. Benson, associate professor of agricultural and biological chemistry. Cytogenic studies in the genus solanum, by Dr. Paul Grun, assistant professor of genetics, have been granted \$10,000.

Glenn R. Kean, associate professor of animal husbandry, will direct a study on the feeds and mineral supplements for cattle, supported by a grant from the E. I. du Pont de Nemours and Co., Grasselli Chemicals Division.

The Gaspari Brothers, Temple, Pa., have given a grant of \$300 in support of mushroom research work, to be directed by Dr. Henry W. Popp, head of the department of botany and plant pathology.

Biography of President Buchanan Near Completion By Dr. Klein

JAMES BUCHANAN, fifteenth president of the United States, is still one of the stormiest figures in the American political scene, if not to historians, at least to the general public.

But, as Dr. Philip S. Klein, professor of American history, will point out in the book he is completing now, Buchanan had no desire to destroy the Union, a charge frequently made of him. To the contrary, he made every effort to preserve the early concept of the Union of the States.

This is only one of the common misconceptions of the life and career of Buchanan, Pennsylvania's only president, whose term of office occurred in the "era of unreason" just preceding



Dr. Philip S. Klein

Buchanan interest began in boyhood

the Civil War. It is not Dr. Klein's intention, however, to "whitewash" Buchanan but to delve into his personal life as viewed by his contemporaries. Much of what has been written about Buchanan has relied on that which was said and written about him after his term in the White House and in the years following the Civil War. Dr. Klein prefers to consider him in the light of those who knew him in his prime.

For his research, Dr. Klein has relied on many sources, including materials in Bellefonte, Lancaster, Harrisburg, Philadelphia, Washington, D. C., and in Georgia. He has had a direct interest in Buchanan since 1931, when he worked on his master's thesis at the University of Chicago. At various times since then he has searched deeper into available materials to learn more of "The Bachelor President." But even as a youngster, he played in the orchards of "Wheatland," Buchanan's home in

Lancaster, and on which he wrote a short book in 1936.

The Bellefonte papers, lost in the Lane home for many years, came to light five years ago when the house was to be sold. Dr. Klein obtained permission to copy these letters of Elliot Eskridge Lane, nephew of Buchanan, and while the sale was going on Mrs. Klein stenotyped the pertinent data. The papers are of considerable interest because Miss Lane, sister of Elliot Lane, was the official mistress of the White House in Buchanan's time.

An even more important source was the Howell Cobb collection at the University of Georgia. Cobb was Buchanan's secretary of the treasury and many of the 15,000 letters Dr. Klein surveyed one summer were written by the Cobb family about the Buchanan administration. The letters are of personal, rather than official, nature, and gave Dr. Klein his best source on the White House.

In Lancaster, the Hiram Swarr collection of family papers, financial affairs and political notebooks, gave Dr. Klein an insight into the important politicians of the Buchanan days. The Library of Congress and the Pennsylvania and Philadelphia historical societies provided him with many of Buchanan's own papers.

Buchanan, as Dr. Klein points out in his book, was a firm believer in the law. "We acknowledge no master but the law," Buchanan said. The great controversy over slavery, as a moral issue, Buchanan believed, should not have been decided by legislators.

"Buchanan did not believe in slavery," Dr. Klein says, "but he did believe that the law protected individuals' property rights, and slaves were then considered property. He tried to stem the tide of discontent with the Union, hoping that the controversy over slavery could be decided by education and other means than civil war and disunion.

"He had a strong belief in states' rights and the need for decisions on the local level. He felt that the federal government should be strong for defense of the country but he did not feel that the Government at Washington should decide that what is right for one county could be right for all others."

Buchanan's influences were many, but his mother and his professors at Dickinson College were undoubtedly great forces in his life. Dr. Klein's biography will shed some light on the other forces and thereby clear up some of the controversies which have raged around the man.

Historians will value Dr. Klein's book highly, although they may not agree with all his conclusions. Few will quarrel, however, with Dr. Klein as a historical writer.

Promotions Announced

The following faculty members were promoted to rank indicated, some effective July 1, 1956, others effective July 1, 1955. Other promotions, for ranks of associate professor, assistant professor, associate research professor, research associate, research assistant, instructor, and various promotions in agricultural and home economics extension will be announced in following issues of *Faculty Bulletin*.

Assistant Dean for Research

George L. Leffler,
Business Administration

Professor

William H. Armstrong,
industrial engineering
Norris D. Blackburn, entomology
Samuel W. Blizzard,
sociology and rural sociology
Robert E. Clark, sociology
Rose M. Cologne, education
Howard A. Cutler, economics
Sybil D. Emerson, art education
Henry A. Finch, philosophy
A. Harris Forbes, electrical engineering
Ernest H. Freund, philosophy
Beatrice L. Hagen, mathematics
Frank N. Hewetson, pomology
Kathleen A. Johnston,
family economics and housing
Henry G. Lew, aeronautical engineering
Anthony S. Luchek, industrial relations
Herbert F. McFeely,
extension information
David H. McKinley, banking
James W. Markham, journalism
John R. Mentzer, electrical engineering
Wilford R. Mills, plant pathology
Benjamin W. Niebel,
industrial engineering
Ralph F. Nielson,
petroleum and
natural gas engineering
Robert B. Patrick, education
William E. Ranz, engineering research
J. W. Crane Remaley, education
Roger B. Saylor, business statistics
F. Raymond Smith, physics
Glenn Z. Stevens,
agricultural education
Robert W. Taft, Jr., chemistry
Arthur T. Thompson,
engineering research
George L. Thuring,
industrial engineering
Philip L. Walker, Jr., fuel technology

Faculty Lunch Club To Hear Dr. Bernreuter

Dr. Robert G. Bernreuter, director of the Division of Counseling, will explain this new service to the Faculty Luncheon Club at its first fall meeting Monday, Sept. 24.

The Faculty Luncheon Club meets every Monday at 12 noon during the school year in the private dining room east of the Terrace Room in the Hetzel Union Building. The members of the faculty and staff are all invited to attend. Tickets for luncheon each week must be purchased at the main desk in the HUB, at \$1.25 plus four cents tax.

Other Grants-In-Aid Given

(Last week's Faculty Bulletin announced the grants-in-aid by the Council of Research for the Colleges of Agriculture and Engineering. The following complete the list of approved grants.)

College of Chemistry and Physics

R. H. Good, Stark Effect in Hydrogen; John R. Hays, Ion Exchange Separation of Germanium; P. S. Skell, Calculation of Non-bonding Repulsions in Organic Molecules; A. E. Woodward, L. Goodman, The Electronic Spectra of High Polymers.

College of Education

K. R. Beittel, Collection and Study of Tests and Measuring Devices of Possible Use in Research in Art Education; M. Chiappetta, Change in Values Through Written Self-expression; Y. G. Chomicky, A Continued Inquiry into Oxy-acetylene Welding Process as a Sculpture Medium; John F. Corso, Construction of an Art Aptitude Test; Sybil Emerson, Soft Ground Etching and Other Printing Methods as Adapted to an Advanced Course in "Graphic Methods for Teachers"; J. H. Grosslight, R. E. Stover, The Relationship of Early Feeding and Environmental Experience in Trout on Later Survival Behavior in a Natural Environment.

G. M. Guthrie, Development and Change of Attitudes Toward Candidates for President in National Elections of Fall of 1956; H. C. Kranzer, A Study of the Value of Outdoor Experience of children and of the Feasibility of Making School Camping an Integral Part of Education in Pennsylvania; D. G. McGarey, Development of an Experience Curriculum for Secondary School Teachers; C. T. McNeerney, Teacher Education; Matti, E. L., The Development of an Encastice Medium for Use in Secondary School Art Programs; W. S. Ray, Item Difficulty and Test Reliability; D. W. Russell, Teaching by Television in Education; S. Siegel, Decision Behavior and Personality: The Relation of Personality Variable to Decision Processes; A. J. Slivinske, Dietary Deficiencies and Elevation in Activity as Variables Influencing Resistance to Stress in the White Rat.

W. U. Snyder, An Analysis of Relationship Factors in Psychotherapy: Development of a Theoretical Structure Regarding the Effect of Variations in the Relationship on the Quality of the Therapy; G. M. Torkelson, A. W. VanderMeer, To Measure the Relative Effectiveness of Highly Visual Versus Low Visual Type Presentation in Teaching Concepts of Audio-visual Education to Prospective Teachers; D. H. Veon, The Effect of the Medium of Television Upon the Instruction of Shorthand and Typewriting.

College of Home Economics

J. D. Amberson, The Interaction Between Homemaking Teachers and the Community; R. W. Ayres, A Contribution to Methodology in Determining Consumer Satisfaction; J. A. Bovie, Child Rearing Practices and Attitudes of Parents of Children of Preschool Age; J. H. Britton, Effects on Personality Development of Multiple Mother-Nurse Figures During Infancy; V. Britton, A Comparison of Home Ownership and Rental for Nonfarm Families; H. M. Hatcher, The Relationship Between the Want Development Theory and the Extent to Which Certain Basic Learnings in Home Art are Applied by Students to Everyday Living; E. E. Hester, An Investigation and Comparison of Methods for the Determination of Peptization and Heat Denaturation of Wheat Protein as Affected by Sugars; W. L. Morgan, Child Rearing Practices and Attitudes of Parents of Children in Nursery School; A. E. Siegal, Methods for the Study of Personality and Social Development in Young Children; M. E. Starr, Effects on Personality Development of Multiple Mother-Nurse Figures During Infancy.

College of the Liberal Arts

Helen Adolf, Studies in the Everyman Motif, East and West; Elton Atwater, Problems of International Understanding and World Affairs; Simon Belasco, The Relative Degree of Resonance of French Speech Sounds; D. W. Bleznick, Rhetoric in Renaissance and Golden Age Spain; A. F. Buffington, Pennsylvania German Folklore; H. T. Colbourn, Conclusion of 'The Historical Origins of American Independence,' Preparation of Study on the Uses of History in America, 1776-1956; William Craig, Applications of Proof Theory to Model Theory; H. B. Curry, Combinatory Logic; D. de Levie, A Study of 18th Century German Literature and of the Origin of German Nationalism.

Kent Forster, International Understanding

and World Affairs. (Completion of textbook.); M. Frieberg, An Edition of the Letter Books of Thomas Hutchinson (1711-1780) on Deposit in the Archives Division of the Massachusetts State House, A Biography of Thomas Hutchinson; S. H. Frost, Fresco Paintings: The Use of the Materials and Techniques of Wall Decoration; P. C. Gilmore, A Nominalistic Interpretation of Set Theory; Henry Hiz, Positional Algebras and Structural Linguistics, Omega Order Functional Calculus, Textbook for Math. 19; H. W. Johnstone, The Principles of Philosophical Argumentation; P. S. Klein, Biography of James Buchanan, Fifteenth President of the United States; Laurent LeSage, The Life and Works of Jean Giraudoux; N. A. McNall, An Historical Study of the Farm Management Practices of the Wadsworth Family in the Estates in Livingston County, N. Y.

D. R. Mackay, The National Association of Radio and Television Broadcasters, A History; J. W. Markham, Performance of the Pennsylvania Press in the 1956 Election Campaign; F. R. Matson, The Technical Examination of Ancient Near Eastern Pottery in Selected European Museums; M. A. Mook, American Quaker Personal and Family Names; J. M. Morse, Forerunners of Protestantism, The Growth of Individualistic Thought Within the Catholic Church from Erigena to Wyclif; R. K. Murray, The Turbulent Years, America at the Crossroads, 1893-1896; P. F. Norton, Samuel Pepys Cockerell, His Architectural Work and His Times, The Lost Cupid of Michelangelo; J. F. O'Brien, The Parliamentary Theory and Practice of Henry M. Robert.

J. E. Pixton, Biography of Charles G. Dawes; D. V. Ramsey, Social Characteristics of Male Juvenile Delinquents in a Non-metropolitan Area; A. C. Ravitz, John Pierpont, Yankee Firebrand; J. G. Rayback, Completion of an Outline History of Labor; Neal Riemer, International Understanding and World Affairs; J. Y. Roy, Translations of Natural Forms to Pictorial Design; G. R. Smith, A Classified Bibliography of Books and Articles on the Editions of Shakespeare from 1935 (the year of the last such bibliography published) to the present; C. C. Spence, British Investments and the American Mining Frontier, 1860-1901; H. Steiner, Continuation of work on Collecting Letters of Hugo von Hofmannsthal and Preparing Vol. 1 of His Correspondence; G. H. Stempel, Performance of the Pennsylvania Press in the 1956 Election Campaign.

E. C. Thaden, Conservative Nationalism in Tsarist Russia, 1800-1917, Montenegro: Russia's Troublesome Ally, 1910-1914; F. J. Tschann, Annotated English Translation of Ekkehard's Casus S. Galli; W. Weisman, The Writing of a Book on the Origins of the Skyscraper, Developments in the Field of Commercial Architecture, 1845-1890; Nora Wittman, The Introduction of German in the Elementary Schools of Pennsylvania; Kelly Yeaton, Techniques of Simultaneous Photography and Tape Recording of Theatrical Performances; W. H. Walters, The Teaching of the Techniques of Popular Comedy in "Short Course" Form; G. S. Zoretich, Lithography, Woodcutting, and Etching as Creative Media in Printmaking (continuation of a previous study); Eleanor Zyglar, Investigation of the Methods and Materials Involved in Producing Mosaics, as Well as Practical Experimentation to Produce Panels in the Actual Medium.

College of Mineral Industries

G. F. Deasy, P. R. Griess, A Geographical Analysis of the Electric-Generating Industry of Pennsylvania; H. B. Palmer, Product and Intermediate Analysis in High Temperature Gas Reactions Pertinent to Combustion and Cracking; T. S. Polansky, Nature of Residues from Pyrolysis of Sodium Humates and Humic Acids Prepared from Nitric Acid Treated Bituminous Coal (continued from past year); J. D. Ridge, Solubility of Silver Sulfide in Water; O. F. Tuttle, Continuing to Build up File of "Known" Reference Set of Minerals and Their Powder X-ray Diffraction Patterns; H. D. Wright, Phase Relationships in the System Cu-Ag-S.

Scientists Arrive For Nuclear Training

A second group of 31 scientists, including 19 from foreign countries, has enrolled for training in nuclear science and engineering.

The first group, which completed four months of training under an Atomic Energy Program last August, is now enrolled at Argonne National Laboratory near Chicago for advanced study.

Revised Calendar Given

The official University calendar for 1956-57, as amended by the University Senate, is somewhat different from that printed in the University Catalogue. The faculty should note that under this new schedule makeup of classes, required in previous years because of holidays, will not be necessary this year.

Fall Semester 1956-57

Sept. 9, Sun.—
Orientation Week begins
Sept. 12-15, Wed.-Sat.—
Fall Semester Registration
Sept. 17, Mon.—
Fall Semester classes begin 8 a.m.
Nov. 10, Sat.—
Mid-semester Below Grades due
Nov. 21, Wed.—
Thanksgiving Recess begins 11:50 a.m.
Nov. 26, Mon.—
Thanksgiving Recess ends 8 a.m.
Dec. 22, Sat.—
Christmas Recess begins 11:50 a.m.
Jan. 2, Wed.—
Christmas Recess ends 1:10 p.m.
Jan. 12, Sat.—
Fall Semester classes end 11:50 a.m.
Jan. 14, Mon.—
Fall Semester examinations begin 8 a.m.
Jan. 22, Tues.—
Fall Semester ends 5:30 p.m.
Jan. 27, Sun.—
Fall Semester Graduation Exercises

Spring Semester 1957

Jan. 30-Feb. 2, Wed.-Sat.—
Spring Semester Registration
Feb. 4, Mon.—
Spring Semester classes begin 8 a.m.
Mar. 30, Sat.—
Mid-semester Below-Grades due
Apr. 17, Wed.—
Spring Recess begins 11:50 a.m.
Apr. 24, Wed.—
Spring Recess ends 1:10 p.m.
May 25, Sat.—
Spring Semester classes end 11:50 a.m.
May 25, Sat.—
Spring Semester examinations begin 1:10 p.m.
May 30, Thurs.—
Memorial Day Recess
June 5, Wed.—
Spring Semester ends 12:30 p.m.
June 8, Sat.—
Commencement Day

Summer Sessions 1957

June 10, Mon.—
Registration for Inter-Session in a.m.
June 10, Mon.—
Inter-Session classes begin 2 p.m.
June 28, Fri.—
Inter-Session ends 4:50 p.m.
July 1, Mon.—
Registration for Main Summer Session
July 2, Tues.—
Main Summer Session classes begin 8 a.m.
July 4, Thurs.—
Independence Day Recess
Aug. 9, Fri.—
Main Summer Session ends 4:50 p.m.
Aug. 10, Sat.—
Main Summer Session Graduation Exercises
Aug. 12, Mon.—
Registration for Post-Session in a.m.
Aug. 12, Mon.—
Post-Session classes begin 2 p.m.
Aug. 30, Fri.—

Waldo Peirce Painting Gift to University

A painting by the contemporary American artist, Waldo Peirce, a gift of the artist himself, is now hanging in the reception corridor of the president's office on the second floor of Old Main.

The oil painting, titled "Water-babies," is an impressionistic type of landscape painted at the swimming pool of dramatist Maxwell Anderson.

Mr. Peirce, born in Bangor, Me., is an illustrator and writer who has studied at Harvard University and in Paris, France. His works have been exhibited nationally and he has won several important awards, including one at the Carnegie Institute in 1944.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday.

Calendar

Friday, Sept. 28

Graduate School Convocation, 7:30 p.m., Schwab Auditorium. Dr. M. A. Farrell, associate dean, College of Agriculture, on "The Company of Distinguished Scholars."
College of Agriculture faculty meeting, Room 109, Armsby Hall, 4:10 p.m.
Meeting of Penna. Dairy Goat Association. Gideon Society meeting.

Sunday, Sept. 30

Chapel Service, Schwab Auditorium, 10:55 a.m. Dr. William G. Mather, head of the department of sociology.

Monday, Oct. 1

State College Concert Association membership campaign opens with meeting of volunteer workers, 7:30 p.m., Hetzel Union Building.

Faculty Luncheon Club, 12:00 noon, Hetzel Union Bldg. Dining Room A. Dr. W. L. Henning, State Secretary of Agriculture, on "Services Performed by the Department of Agriculture."

Tuesday, Oct. 2

Meeting of American Society for Metals. Social Hour and movies, 8 p.m. at Delta Sigma Phi fraternity.

Philosophy colloquium, 4 p.m., Room 5, Sparks Building. Dr. John Mourant, professor of philosophy, will talk on "Aquinas and Theology."

Meteorology seminar, 4 p.m., 121 Mineral Industries. Paul Julian, instructor in meteorology, will talk on "1956 Boulder, Colorado, Conference on Solar-Weather Relationships."

AAUP meeting, Mineral Sciences Aud., 7:30 p.m. Dr. W. G. Mather presiding over panel discussing "The Place of Religion in a University."

Physics Colloquium, 4:10 p.m., 117 Osmond Lab. Prof. R. N. Work, assistant professor of physics, on "Chain Configurations and Physical Properties of Polymers."

Wednesday, Oct. 3

Forestry convocation, 11 a.m., 121 Sparks. Andrew G. Brenneis, assistant regional forester, U.S. Forest Service, Upper Darby, Pa. Illustrated lecture on the Timber Resource Review.

Thursday, Oct. 4

Engineering Mechanics seminar, 1:10 p.m., Room 203 Engineering "A." J. F. Bratt, instructor in engineering mechanics, on "Propeller-Excited Vibrations."

University Senate meeting, 4:10 p.m. in the Assembly Room, Hetzel Union Building. The faculty is asked to please note change in meeting place.

Friday, Oct. 5

Meeting of directors of Penna. Livestock and Allied Industries Assoc.

Dr. Burrage Dies

Dr. Leslie M. Burrage, who served on the faculty from 1909 until his retirement in 1948, when he was named professor emeritus of French, died at Centre County Hospital on Sept. 22. He was 72.

Special Committee Named To Find Research Coordinator

A special committee to aid in choosing a research coordinator for the University has been appointed by Dr. Eric A. Walker, president-elect.

In a companion announcement, Dr. Walker also appointed Ossian R. MacKenzie, dean of the College of Business Administration, as special assistant to the president on a temporary basis. He will supervise operation of housing, food service, purchasing, physical plant, and personnel services.

Dr. Brice Harris, head of English literature department, will be chairman of the committee to recommend three or more candidates to Dr. Walker for the position of coordinator of research.

To serve with Dr. Harris will be Dr. M. R. Fenske, Chemistry and Physics; Dr. Hugh S. Brown, Education; Dr. M. E. John, Agriculture; and Dr. J. J. Reed, Mineral Industries.

Six Scholarships Announced

Scholarships in ceramics, mineral industries, and poultry husbandry recently announced have been provided by the Texas Co., Universal-Rundle Corp., and Price Poultry, Inc., of Hollidaysburg.

Male freshmen entering the curriculum of ceramics will be eligible for a \$500 scholarship which may be renewed each year, if the student maintains required scholastic standards.

The Texaco Scholarship provides a stipend to cover fees, plus an annual allowance of \$75 to cover expense of textbooks and supplies. Any student in the College of Mineral Industries, who had been in the upper third of his high school class and has need of financial aid to go to college is eligible for the scholarship.

Four scholarships of \$600 each to encourage students to enter the field of poultry husbandry have been established. They will be awarded initially to freshmen and a student may qualify for continuation of the award each year.

Concert Association Drive Opens Oct. 1

The annual membership campaign of the State College Concert Association will open Monday, Oct. 1, and continue until Saturday, Oct. 6, David H. McKinley, president, has announced.

Patrons of the series last year will have priority in renewing memberships. They will receive a renewal blank prior to Sept. 24 which may be returned to the person who handled the membership last year or mailed direct to the Association. Memberships are \$7.

Co-chairmen of the membership campaign are Leland S. Rhodes and Dr. Robert W. Stone.

Although the complete program is not yet available, The Pittsburgh Symphony Orchestra, the Westminster Choir, and Eileen Farrell, San Francisco Opera star have already been booked. One or two additional concerts are expected to be added to the series, depending on the success of the campaign.

Miss Farrell is scheduled for Oct. 29, the Pittsburgh Symphony for Nov. 20, and the Westminster Choir for Feb. 20.

Patent Attorney Appointed

M. E. Frederick, registered patent attorney and patent counsel for the Ordnance Research Laboratory, has been appointed on a part-time basis as patent counsel for the faculty, according to an announcement by Dr. Eric A. Walker, vice-president.

The move was made, Dr. Walker explained, as a result of the tremendous increase in the amount of research being done at the University.

It is anticipated that Mr. Frederick can be of assistance to faculty members engaged in personal research using University facilities, University-sponsored research, or externally supported research, or who have developed inventions to which title may be claimed by the University.

Specific information about patent procedures or advice about ideas considered patentable will be available from Mr. Frederick.

COURSE OF STUDY COMMITTEE ANNUAL REPORT

The Courses of Study Committee, reconstituted with two new members and a new chairman, has aside from exercising its usual functions also engaged in a continuing process of reexaminations of its policies and procedures. Changes and innovations have upon adoption been duly announced in the next succeeding issue of the monthly reports of the Committee, and they will be incorporated in a revised edition of the Committee's statement of "Standards and Practices," which is to be issued before the beginning of the Fall Semester. The Committee regrets that its request was not granted for a conference with a responsible representative of the Administration to discuss matters of both mutual and conflicting interest in an attempt to arrive at a common understanding as to the Committee's powers, responsibilities, and duties, as well as policies and procedures.

In its routine activities the Committee met sixteen times for a total of thirty hours. A substantial portion of this time was devoted to interviews with eight proponents of proposals which the Committee either questioned or found unacceptable in initial deliberations. Most of the proposals thus presented, considered, and debated, were eventually rejected. The vast number of actions, however, were affirmative and are summarized in the sub-joined tables.

College	Added				Dropped				Changed				Total Action
	Under-graduate	400	500	700 800 900	Under-graduate	400	500	700 800 900	Under-graduate	400	500	700 800 900	
Ag.	1	2	7	96	1	1			12	20*	13*		153
Bus. Ad.	3	6	1		6	9	3		10	5	4		47
C. & P.	1	4	3		1				3	9	20		41
Ed.	1	5	4		1				9	6			26
E. & A.	2	8	6		1	7			14	7	6	5	56
H. Ec.		1	2						1	3	1		8
L. A.	7	9	3		8	3			41*	14	4		89
M. I.	4	1	6	3	7		4	1	20*	25*	22		93
Ph. E.				4	1				9				14
R. O. T. C.									6				6
Totals	19	36	32	103	24	15	14	1	116	92	76	5	533

* Figures given for course changes include 46 changes in designation only, e.g., Art to Art and Architectural History, Ceramics to Ceramic Technology, and Forestry to Wood Utilization, also five joint-listings, e.g., Architecture and Art and Architectural History.

Program of Study, Including Curricula, Majors, Options, and Programs

	Added	Dropped	Changed	Totals
Agriculture	2	1	9	12
Business Administration			12	12
Chemistry and Physics	2	2	1	5
Education	1	1	6	8
Engineering and Architecture	5	1	20	26
Home Economics			7	7
Liberal Arts	2		9	11
Mineral Industries			17	17
Physical Education and Athletics		1	3	4
Totals	12	6	84	102

May 26, 1956

Bell to Direct University Press Committee of Five

A committee of five faculty members, with Louis H. Bell, director of public information, as executive director has been appointed by President Milton S. Eisenhower to set the policies and guide the affairs of the University Press in its first year.

The committee members, in addition to Mr. Bell, include Dr. Kinsley R. Smith, professor of psychology; Dr. George E. Brandow, professor of agricultural economics; Christian K. Arnold, associate professor of engineering research, Ordnance Research Laboratory; Dr. E. Willard Miller, professor and head of the department of geography; and Richard C. Maloney, assistant dean, College of the Liberal Arts.

The press will involve little or no property. It was set up by the Board of Trustees last March as an organization of faculty and administrative personnel to select suitable manuscripts and have them published, promoted, and sold through a cooperative arrangement with a long-established university press.

Senate Committee Receiving Applications For Scholarships

Applications for scholarships awarded by the Senate Committee on Scholarships and Awards are now being received by that committee. The applications must be filed prior to Oct. 1.

The forms for applications may be picked up from the Coordinator of Scholarships, 205D, Old Main; the Trust Funds Division of the Accounting Office, 6 Willard Hall; or at the office of the dean of the college of the student.

Mathematics Awards Cited

A gift of \$300 from the Sylvania Electric Products, Inc., has made possible the awarding of honor prizes in freshman mathematics. Recipients of the awards, in the form of books, will be selected by a committee of the mathematics department on the basis of outstanding scholarship, originality, and scientific aptitude.

Last year, 62 freshmen were honored at mid-term with awards donated by the local chapter of Pi Mu Epsilon, national honorary mathematics fraternity.

Faculty Quotes . . .

Dr. Milton S. Eisenhower, in his last talk to the faculty on Sept. 20, in commenting on the decision to plan for a resident enrollment of 18,500 by 1970, said:

"Some people have criticized this decision apparently in the belief that Penn State should do more. However, I question whether the University can do more without too great a sacrifice in the quality of its program."

* * *

Dr. Harold K. Wilson, director of DIR, in discussing failures among students on the college level, said:

"I believe that practically every student admitted to Penn State can succeed and graduate if he works hard, is in a field for which he is suited, has the right attitudes, and is favored with good health."

Items of Interest

Nora E. Wittman, assistant professor of German, has completed a "Teacher's Guide for Beginning German in Grade Three," published by the Modern Language Association of America. Miss Wittman is national chairman of the Committee on Foreign Languages in Elementary Schools.

* * *

Foreign language broadcasts, a regular feature of campus radio station WDFM, will be heard also on WMAJ starting Oct. 2. A Spanish news broadcast will be presented at 9:55 p.m. each Tuesday and a French news broadcast each Thursday at the same hour. Dr. Donald W. Bleznick, assisted by Dr. Simon Belasco, both assistant professors of Romance languages, is in charge.

* * *

Dean E. F. Osborn is chairman of a recently appointed committee to inventory the University's summer camp facilities and to recommend a five-year plan for the development of the camp areas. Other members of the committee are Wilmer E. Kenworthy, director of Student Affairs; Ernest B. McCoy, dean of Physical Education and Athletics; Dr. William C. Bramble, professor of forestry; and Lawrence J. Perez, professor of civil engineering.

* * *

Drs. Ruth C. Silva and Neal Riemer, both associate professors of political science, delivered papers at the annual meeting of the American Political Science Association in Washington, D.C. recently. Dr. Silva spoke on "Presidential Succession and Disability" and Dr. Riemer on "Woodrow Wilson and the New Conservatism."

Grants-In-Aid Go To Nearly A Hundred For Research

Miss Helen Adolf, professor of German, has had eight grants for her scholarly studies of the Grail and the Everyman Motif.



STILL in its infancy stage, but a much healthier infant than it was five years ago, is the University's grants-in-aid of research program.

The budget this year for the program is \$28,390, more than three times what it was five years ago. The number of research programs allotted funds this year is also nearly three times the number in 1951. In all, 95 faculty members have been granted sums up to \$250 for their special work this year.

While these statistics are far from grandiose, especially in comparison to similar statistics at other institutions, they represent an encouraging sign. To at least some of the 95 recipients, a research grant-in-aid means the difference between carrying on the research or not.

Basically, a grant-in-aid is given only when funds are not available from other sources. The Council on Research, which administers the program, scrutinizes all requests carefully for such availability of funds as well as the uses to which the grants may be applied. For example, grants may not be used for publications, nor for equipment which does not apply directly to the research. Nor may they be used in support of research done by graduate students as part of degree requirements. Clerical help may not be paid from such funds unless this is given specifically to the research.

But there are few limitations to the application of the funds, otherwise. Travel, supplies, applicable equipment, materials—all these may be properly

sought from the funds.

None of the grants is large since the budget is limited. Last year, \$15,000 for the program was provided from general funds of the University. Varying amounts have come in the past few years from the Pennsylvania Research Corporation and the Penn State Foundation.

Five years ago neither the PRC nor the Penn State Foundation was in position to provide funds for research. And while the addition of these two sources has been extremely valuable, the breadth and depth of the grants-in-aid program have yet to be developed.

"For example," says Dr. H. K. Schilling, dean of the Graduate School and chairman of the Council on Research, "we know that for many faculty members a \$250 grant would be a mere drop in the bucket to carry on their research the way it should be. On the other hand, for many others such a sum is very helpful, and may defray most of the expenses incurred in research for a year.

"With the limited funds we have available we have attempted to aid as many faculty members as we can rather than give a great amount to one person and thereby exclude others."

"This principle also helps to explain why we do not give two or three grants to one person for different researches, even though they may all be worthwhile."

Faculty members are not excluded, however, from obtaining grants year after year. Miss Helen Adolf, professor

of German, has received eight grants for such scholarly research as studies of the Grail and the Everyman Motif. The latter study, which she is now conducting, is an attempt to find the origin and learn the modern ramifications of a motif which has run through the literature of the world from perhaps 500 B.C. to Hoffmansthal and Joseph Kafka, of this century. Perhaps the motif is best exemplified in a 15th century English play in which the title role is that of a wealthy man who, abandoned by all others, is sustained by his good deeds. Prayer, contemplation, etc., are weighed in final Judgment by deeds.

Miss Adolf, making use of many source materials here but also in libraries in Philadelphia, New York, Harvard University, and Princeton, finds certain connections in the literature of all ages for 2,500 years. The motif apparently originated in India or Persia.

This research, certainly of great interest to scholars, has brought credit not only to Miss Adolf but to the University. Most of her grants have been used for travel to study other source materials. Publications in eight or nine different languages have contributed to her research.

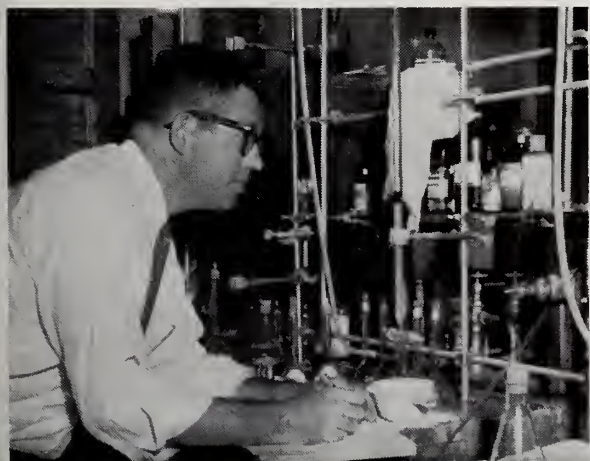
Studies of this type obtain little help outside of grants-in-aid from the Council on Research. Scientific subjects are often aided by grants, too, especially those of fundamental nature, but since there are many more sources of funds for scientific work the applications for grants are fewer than in other areas.

On special occasions, grants from the Council's funds are made in excess of the usual limitation of \$200 to \$300. Dr. Edward C. Thaden, instructor in history, was recently granted \$600 to supplement other funds for travel and research in Russia. As is true with all other grants, any unexpended amounts will be returned to the Central Fund for Research.

Two years ago, thousand-dollar grants were made for the obtaining of a digital computer and for the Social Science Research Center. Such large grants are rare.

Applications for grants-in-aid are received at any time but the largest share of grants is made in the spring. If funds exceed grants already at this time of year, new grants may be made.

Technical and scientific studies are not excluded from grants. John R. Hayes, associate professor of chemistry, has a grant for studies of ion exchange separation of germanium.



AAUP To Meet Oct. 2

The first fall meeting of the AAUP will be held in the Mineral Sciences Auditorium, Tuesday, Oct. 2, at 7:30 p.m. Dr. William G. Mather, head of the department of sociology, will preside over a panel to discuss "The Place of Religion in a University."

Other panel members will be Luther H. Harshbarger, University chaplain; Preston Williams, assistant chaplain, and representatives of those teaching credit and non-credit courses in religion on campus. A business meeting will follow.

Films To Be Previewed

The Audio-Visual Aids Library has requested the following films for preview. Faculty members desiring to be notified when prints arrive should call Extension 2051.

"The Vice-Presidency" (Edward R. Murrow)
"You Can't Stop on a Dime" (driver training)
"A Child's World" (value of nursery schools)
"Jobs in Atomic Energy"
"The Clothes We Wear"
"Map Symbols"
"Enamelling on Copper"
"Design in Silver"
"Athens" (historical-archeological)
"Gold Dust Boy" (re-creation of life in gold-rush days)
"House" (art and architecture)
"Flamenco" (forms and development of dance)

Report From The Registrar

Change of Names

Bartlett, Sara Brown from Brown, Sara Louise
Johnson, Axel Robert Sexten from Johnson, Robert Sexten
Krumrine, Mary Louise Elliott from Elliott, Mary Louise
Sinnott, Marie Scarloss from Scarloss, Marie Unteileitner, Helen Dorothy from Sherlary, Helen D.
Wilkins, Phyllis Resa from Stiefel, Phyllis Resa
Wolfgang, Ann Lydia from Krehma, Ann Lydia

List Medical College, Graduate Record Tests

Medical college admission tests and graduate record examinations for the coming year have been listed by Dr. Leon R. Kneebone, associate professor of botany and supervisor of both tests. Additional information and applications for the tests may be obtained from Room 117, Buckhout Lab.

The next medical college admission test will be held on campus Oct. 30 at 8:45 a.m. All applications, accompanied by the \$10 examination fee, must arrive at Educational Testing Service, P.O. Box 592, Princeton, N.J.

Graduate Record Examinations will be held Nov. 17, Jan. 19, April 27, and July 6. Candidates for assistantships, fellowships, etc., for the fall of 1957 should take the examination on either the November or January dates. Applications must be received at Educational Testing Service, 20 Nassau St., Princeton, N. J., two weeks prior to the date of the examination.

Other Promotions Listed

The following faculty members were promoted to rank indicated some effective July 1, 1956, others July 1, 1955. Last week's Faculty Bulletin listed those promoted to professorships.

Associate Professor

Eugene Ackerman, physics
Everett Alderman, psychology (General Extension)
Ralph E. Armington, electrical engineering
Christian K. Arnold, engineering research
Ralph G. Asch, chemistry
Raymond G. D. Ayoub, mathematics
George P. Barron, Jr., animal nutrition
Richard P. Barthol, psychology
Carl A. Bauer, physics
Kenneth R. Beittel, art education
Clotworthy Birnie, Jr., mechanical engineering
Lowell M. Boorse, music (General Extension)
John S. Boyle, plant pathology
J. Norton Brennan, engineering research
William T. Butz, agricultural economics
William M. Carroll, agricultural economics extension
George E. Ceiga, music
Michael Chiappetta, education
Walter W. Clarke, Jr., entomology extension
Ralph W. Condee, English literature
J. Stanley Cook, English (General Extension)
Clyde G. Corle, education
James D. Decker, mechanical engineering
Dagobert de Levie, German
Helen Denning, nutrition and health extension
Norman C. Deno, chemistry
N. Richard Diller, psychology (General Extension)
Aaron Druckman, philosophy
Felix du Breuil, mining engineering
James H. Eakin, Jr., agronomy extension
Roy G. Ehman, mineral technology extension
Julian Eisenstein, physics
Walter L. Ferree, history (General Extension)
Iline Fife, speech
Katherine H. Fisher, foods and nutrition
Edwin R. Fitzgerald, physics
Robert F. Fletcher, vegetable gardening extension
Lawrence E. Fouraker, economics
James V. Frick, speech
Stanley G. Gesell, entomology extension
Roland H. Good, Jr., physics
Emerson L. Grindall, engineering research
Joseph L. Grucci, English composition
Edgar R. Hale, animal behavior
Harold J. Herbein, engineering (General Extension)
Henry I. Herring, mathematics (General Extension)
Harold L. Hinman, psychology (General Extension)
Burton S. Horne, agricultural engineering extension

L. Aileen Hostinsky, mathematics
Ling-Wen Hu, engineering mechanics
Harry K. Hutton, education
Robert F. Hutton, farm management
Barton L. Jenks, Jr., mechanical engineering
Henry W. Johnstone, Jr., philosophy
Glenn R. Kean, animal husbandry
John R. Kinney, mathematics
Robert G. Laufer, poultry husbandry extension
Louis A. Legory, chemistry
Arthur O. Lewis, Jr., English literature
Erwin E. Lienhafsky, economics
Philip B. Lovett, mechanical engineering
Rensler J. McDowell, engineering research
Charles R. Marsh, electrical engineering
J. Richard Mattern, chemistry (General Extension)
Edward L. Mattil, art education
Thomas W. Minkus, political science (General Extension)
J. Herbert Moore, civil engineering
Robert K. Murray, history
William L. Muschlitz, engineering research
William T. Nearn, wood utilization
Virgil E. Neilly, engineering extension
Lester P. Nichols, plant pathology extension
Harold J. O'Brien, speech
Frederick M. Oldach, geology (General Extension)
T. Reginald Porter, education
John H. Reedy, Jr., economics
Ralph R. Ricker, physical education
Allan L. Rodgers, geography
Leon S. Roudiez, Romance languages
Charles W. Rutschgy, entomology
John M. Schempf, chemistry
Douglas G. Schultz, psychology (General Extension)
Harvey E. Shaffer, dairy science extension
Sidney Siegel, psychology
Charles J. Smith, civil engineering
Cyril B. Smith, plant nutrition
Edward J. Smith, farm management extension
Robert L. Smith, economics (General Extension)
James P. Stewart, English composition
Rudolph Sussman, psychology (General Extension)
Paul C. Sweetland, engineering research
O. Hoyt Tribble, psychology (General Extension)
Warren N. Underwood, civil engineering
Thomas Wartik, chemistry
Hobson M. Zerbe, mathematics (General Extension)
Leonard M. Zimmerman, bacteriology
Harry D. Zook, chemistry

Associate Research Professor

Walter G. Braun, chemical engineering
E. Erwin Klaus, petroleum chemistry
Edward F. Koch, petroleum chemistry

Research Associate

James D. Shaffer, Ordnance Research Laboratory
Alice E. Warne, Bureau of Business Research

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday.

Calendar

Friday, Oct. 5

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. G. A. Jeffrey, professor of physics and chemistry, U. of Pittsburgh, on "A Study of Bond Character in Solids by X-ray Analysis."

Annual meeting of local and municipal finance officers.

Meeting of directors of Penna. Livestock and Allied Industries Association.

Saturday, Oct. 6

Pennsylvania Livestock Field Day.

Sunday, Oct. 7

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Douglas Horton, dean, Harvard Divinity School.

Monday, Oct. 8

Faculty Luncheon Club, 12 noon, Dining Room "A," Hetzel Union Building. Speaker, E. J. Anderson, professor of apiculture, on "The Life of the Honey Bee."

Faculty meeting of College of Physical Education and Athletics, 7 p.m., Room 241 Recreation Building.

Short course for artificial breeding technicians. Ends Oct. 13.

Tuesday, Oct. 9

Institutional engineers conference and meeting of Pennsylvania Association of Institutional Engineers. Ends Oct. 11.

Daily Chapel Service, 8:10 a.m., in charge of the Chaplain's staff.

Wednesday, Oct. 10

DHIA Supervisors' training short course. Ends Oct. 24.

Senate Committee on Courses of Study meets at 9 a.m. in Room 229, Sparks Building.

Daily Chapel Service in charge of Friends, 8:10 a.m. in Chapel.

Thursday, Oct. 11

Daily Chapel Service, in charge of Roger Williams Fellowship, 8:10 a.m.

Weekly Vesper Service, in Chapel, at 4:30 p.m., in charge of Presbyterians.

Engineering Mechanics Seminar, 1:15 p.m., Room 203A, Engineering "A." F. P. J. Rimrott, instructor in engineering mechanics, on "Stresses in a Centrifuge Bowl."

Mathematics colloquium, 2:10 p.m., Room 312 Sparks Building. Robert Ellis, assistant professor of mathematics, on "Uniqueness and Existence Theorems for Partial Differential Equations."

Faculty meeting, College of Mineral Industries, 4:10 p.m., Mineral Sciences Auditorium.

Thespian Show, "Hat in the Ring," 8 p.m., Schwab Auditorium. Tickets \$1.00.

Friday, Oct. 12

Thespian Show, "Hat in the Ring," 8 p.m., Schwab Auditorium. Tickets \$1.25.

Orientation program for new clerical and service employees, Extension Conference Center. Service employees, 9:00 a.m. to 10:30 a.m. Clerical employees, 10:10 a.m. to 12 noon.

Meat Salesroom Open

Sale of meats at the salesroom in the Stock Judging Pavilion are being made each Saturday morning from 9 a.m. to 12 noon.

Research Grant Made To Study Oxygen in Blood

A \$10,364 grant from the U.S. Public Health Service for a fundamental study to determine dissolved oxygen content of living organisms has been received by Dr. Joseph Jordan, assistant professor of chemistry.

The variation of oxygen content of the blood and brain cells is of considerable importance in medicine, Dr. Jordan explains, because it represents a measure of body metabolism. He hopes that enough theoretical knowledge of the electro-chemistry of oxygen will be obtained to make possible use of a fast, automatic electric signal to indicate oxygen level in blood and other body fluids.

Dr. Jordan will not work directly with blood because a more fundamental knowledge of the problem is needed first. Synthetic systems simulating conditions in living organisms will be used.

Council on Research Makes Annual Report

During the year 1955-1956 allocation of funds were made for the academic year 1956-1957 by the Council on Research. For the fiscal year July 1, 1956 to June 30, 1957, the tentative budget is \$28,390. For publications, Penn State studies, and office expense, there was budgeted \$5,900. The difference was essentially all allotted to 95 research projects in eight Colleges; each averaging about \$200 to \$250.

Register for German Exams

All eligible graduate students who intend to take the regular German language reading examination on Nov. 5, other than those who have qualified by passing the preliminary exams, should register by Oct. 12 in Room 229 Sparks Building.

Presents Paper

Franklin H. Cook, professor of business law, presented a paper on "The Responsibilities of the Business Law Teacher" at the recent annual meeting of the American Business Law Assoc.

Art Exhibition Now On Includes Famous Artists

An exhibition of paintings from a private collection is now hanging in the gallery of the Hetzel Union Building.

The exhibition includes oil and water colors and drawings of 19th and 20th century French and American artists. Represented, among others, are Cezanne, Toulouse-Lautrec, Manet, and Picasso.

The exhibition was arranged by Francis E. Hyslop, associate professor of art, and will hang until Oct. 13.

Alumni Fund Giving Shows Good Results

In its third year of operation, the Penn State Alumni Fund is tenth in alumni giving among all the colleges and universities of the country and first among state universities, according to George S. Rose '23, general chairman of the Fund.

In a special report to the faculty, Mr. Rose points out that in 1953, 1954, and 1955 alumni gave \$556,642.79 and that gifts for the current year are now over \$150,000. The books will be closed for the current campaign at the end of the calendar year.

The number of contributors rose from 7,909 in 1953 to 12,134 in 1955, the latter representing more than 28 per cent of the alumni solicited. Alumni giving in the Centennial Year was exceptionally good.

Since the Fund was started, a variety of purposes has been served by the money collected. A summary of the distribution of the funds is as follows:

All-Faith Chapel	\$154,359
Class Funds	30,948
Colleges and Departments	36,697
Scholarships and Loan Funds	167,612
Hetzel Union Bldg.	56,931
University Library	6,677
Religious Activities	13,873
All others	89,546

As Mr. Rose points out, the purposes for which the monies have been used are of such nature that they would not have been realized without outside contributions.

Many faculty members, as alumni, have contributed to the Fund.

Publications Committee Gives Annual Report

In general 1955-56 was a good year for Penn State student publications.

The *Daily Collegian*, continuing to serve the campus, with its traditional editorial freedom, has shown a growing sense of responsibility which is highly commendable.

With additional office space and a new dark-room of its own *Collegian* has been better able to handle its flow of news and photographic material, and by the more frequent use of 12-page editions has expanded somewhat its news coverage of the campus. Total advertising lineage for *Collegian* showed a slight increase over last year, with national advertising expanding sharply. Circulation distribution points have been relocated in an effort to provide papers to students as conveniently as possible.

Proth had a good year financially marked by the introduction of an equitable compensation plan for staff members. Editorially *Proth's* major achievement of the year seems to have been the closer teamwork of editor, faculty adviser, and others in developing a more responsible editorial control. Some literary content has been added to the magazine and there has been a noticeable reduction in the use of questionable gags and jokes.

The *Penn State Engineer* reports a fair business year with its early issues marked by the increased use of color, attractive to the reader, but reportedly rather expensive. Editorially the *Engineer* seems to have held well to its established standards and continues to publish a very fine looking magazine.

On Ag Hill two student publications have appeared regularly during the year. These are the *Farmer*, *Forester*, and *Scientist*, and a student weekly, *The Breeze*. Formerly *The Farmer* was published six times yearly but seldom showed a financial profit. This year with but four issues, and with increased advertising, the financial condition of the publication has been improved. The *Farmer's* faculty adviser terms this its "best year in approximately eight years."

The Breeze, the "ag" student's own weekly, has benefited from the largest staff in its history, has improved its format, and considers this its best year ever.

News and Views, published by the College of Home Economics, is issued four times yearly and this year increased its size from 12 to 16, 24, and 28 page issues. A definite improvement is noted in the quality and quantity of its editorial material and a healthy increase was shown in advertising lineage, particularly local. This year *News and Views* changed its method of printing from letterpress to offset making it more feasible to use a greater amount of creative art work.

Pivot, the poetry annual, published in May an excellent 60-page issue containing contributions by both faculty members and students. Favorable mention of last year's issue of *Pivot* was made in Poetry magazine with the added comment that it has "the unique distinction of paying its own way."

Not previously noted in these reports is the *Biz-Ad Bulletin*. This is an 8x11 format, printed on calendared paper, and contains a well balanced variety of student and faculty news from the College of Business Administration. Subsidized through the College's Student Council this publication contains no advertising and has free distribution.

LaVie, the student yearbook, was, to the gratification of students, issued earlier than usual this year and appeared in its usual impressive form.

Provost Sponsors Informal Meetings

Informal joint meetings of the faculties of the several colleges of the University will be held from time to time this year to stimulate wide discussion of important educational questions. The first such meeting will be held in the auditorium of the Hetzel Union Building on Oct. 24, from 8:00 to 9:30 p.m.

An announcement to this effect has been made by Mr. Larry Dennis, Provost, whose office is sponsoring the meetings.

The meeting of Oct. 24 will be in the nature of a panel discussion among faculty members who have recently participated in workshops or instructional programs in general education at other institutions. They include E. W. Callenbach, head of the department of poultry husbandry; P. M. Althouse, professor of

Items of Interest

A grant of \$39,100 from the U.S. Public Health Service has been received by Dr. William E. Ranz, professor of engineering research, to study certain mist and dust collection equipment. The research, related to the continuing fight to rid the atmosphere of industrial pollutions, will be directed at a type of equipment known as "inertial separation" collector.

* * *

Keith Spalding, who served as administrative assistant to President Milton S. Eisenhower since Jan. 1, has joined the staff of Johns Hopkins University. He will coordinate the administrative details of the executive office at Johns Hopkins.

* * *

Dr. Sidney Siegel, associate professor of psychology, is author of a text and reference book titled "Nonparametric Statistics for the Behavioral Sciences," of importance to psychologists, sociologists, economists, political scientists and others interested in the behavioral sciences.

* * *

Kenneth L. Holderman, assistant dean of the College of Engineering and Architecture, has been appointed chairman of the committee to study the potential need for trained engineering technicians and the present capacity of the technical institutes of the country to train them. The project is supported by a grant of \$38,000 from the Carnegie Corporation to the American Society for Engineering Education.

* * *

Donald W. Davis, professor of journalism and head of the department of advertising, has been appointed a member of the School and College Cooperation Committee of the Advertising Federation of America.

Students Seek Employment

The Student Employment Service has available students to do many types of work both on and off campus. Gardening, baby sitting and clerical work are only a few types of jobs students are seeking. Call Extension 2049 if you wish to obtain such help.

agricultural and biological chemistry; R. W. Condee, associate professor of English literature; and H. W. Cutler, head of the department of economics.

All faculty members are invited to attend the meetings, during which there will be an opportunity to address questions to members of the panel.

The meetings are intended to be informational in nature, Mr. Dennis explains, with the expectation that some principles for the development of educational matters at Penn State will result.

Fulbright Applications Now Being Accepted

Applications for U.S. Government grants for graduate study abroad for 1957-58 under the Fulbright program are now being accepted. Blanks may be obtained from the office of Prof. Robert E. Galbraith, 243 Sparks.

Details concerning the awards are included in a pamphlet prepared by the Institute on International Education, available at the same office.

To be eligible, applicants must be U.S. citizens, hold a bachelor's degree, and have a sufficient knowledge of the language of the country of application, and be in good health.

Deadline for filing applications is Nov. 1, so they should be obtained before Oct. 15. Candidates will be interviewed and ranked by the members of the Senate Committee on Scholarships and Awards at 8 p.m., Tuesday, Nov. 6.

Penn State has averaged two pre-doctoral Fulbright grants in the past six or seven years. Post-doctoral grants for lecturing or advanced research abroad, have also averaged two per year. Applications for these grants were received no later than Oct. 1, through the Conference Board of Associated Research Councils. Informational booklets may be obtained from Mr. Galbraith's office.

Report from the Registrar

WITHDRAWALS (Campus)

- 3 Andrews, Basil, CE, Sept. 22
 - 1 Arcuri, Anthony G., ChEd, Sept. 21
 - 1 Aten, Gordon Robert, CE, Sept. 17
 - 1 Beattie, Franklin P., ME, Sept. 18
 - 7 Beede, John Knowlton, A&L, Sept. 17
 - 1 Bogolea, Albert Nicholas, For, Sept. 21
 - 1 Brenner, Frank Edward, Jr., BusAd, Sept. 21
 - 1 Bryan, Mervin C., AgEd, Sept. 18
 - 1 Capobianco, Fausto Donato, EE, Sept. 22
 - 2 Carpino, Joseph T., DIR, Sept. 21
 - 1 Carter, William Thomas, For, Sept. 21
 - Gr Cassidy, Harold S., Ed, July 6
 - 3 Cohen, Raphael, A&L, Sept. 17
 - 1 Cordaro, Russell T., EE, Sept. 17
 - Gr Culbertson, Elizabeth L., Aug. 16
 - Sp Custer, Elizabeth H., Sept. 19
 - 1 Daher, James, PhEd, Sept. 22
 - 1 Davidson, Richard Merrill, BusAd, Sept. 22
 - Gr Davis, Marcus K., Sept. 17
 - 1 Dennis, Wilmar Gail, Ed, Sept. 18
 - 4 DeRalph, Stanley H., EE, Sept. 18
 - 1 Fallick, Edward, Bact, Sept. 19
 - Gr Frank, Virginia C., Sept. 17
 - Gr Gavitt, Alexander Robinson, Jr., Sept. 17
 - 5 Hale, Wilbur B., Jr., ChEd, Sept. 21
 - Gr Henszey, William P., ME, Sept. 21
 - 1 Hobbs, Gerald Robert, BusAd, Sept. 18
 - 7 Hummel, Albert Louis, Jr., BA, Sept. 19
 - 1 Johnston, Sandra Louis, BusAd, Sept. 21
 - 3 Kling, Nancy Lou, Journ, Sept. 22
 - Sp Klingsberg, Vera Geraldine, Sept. 17
 - 1 Kovalchick, Joseph John, Ed, Sept. 20
 - 1 Laschinsky, Kenneth D., CerT, Sept. 22
 - 3 Lucidi, Louis Francis, PhEd, Sept. 17
 - 1 Potts, Gerald Ray, CE, Sept. 24
 - 2 Rapchick, Theodore S., CE, Sept. 22
 - 1 Robson, Donald Wm., BA, Sept. 14
 - 1 Schalzo, Paul Francis, AE, Sept. 18
 - 3 Scheidmantle, Walter Kenneth, AH, Sept. 25
 - 7 Smith, Orville L., A&L, Sept. 17
 - Sp Stanonis, Gia, Sept. 17
 - Sp Sterrett, Elizabeth Z., Sept. 21
 - 7 Stiber, Max L., DIR, Sept. 14
 - 1 Trodden, Edward Russell, BA, Sept. 21
 - 1 Ward, Patrick Joseph, Agro, Sept. 19
 - 5 Watkins, Lee Nicholas, BA, Sept. 19
 - 3 Weaver, Carl Howard, IArt, Sept. 20
 - 3 Westcoat, Norman C., DIR, Sept. 17
- The following reasons were given for withdrawing: Personal 36, Financial 2, Illness 5, Transferring 1 and Other 4.

Few Universities in Nation Compare in Health Services

THE University's Health Service is one of the most extensive of its type in the nation.

Even in those institutions which have medical colleges, the care of students is often in the hands of the teaching hospital connected with the institution, rather than in a health service devoted to them.

In only one university in the east—Harvard—is medical help provided for the faculty and staff. In a number of midwestern colleges such help is provided but few others have the facilities for such service.

A few other statistics point up Penn State's Health Service as one of the most complete and liberal. Only 36 per cent of the nation's colleges and universities have some kind of health service to give complete diagnosis and treatment. Well over half do not provide special medication or drugs. Al-

available locally except through the Health Service. Such services are provided at the Health Service as they may be fitted in with the student work and at the regular fees.

All Health Service physicians are graduates of grade "A" medical schools and all nurses are registered.

The foremost purpose of the Health Service is to treat the ill and injured among full-time students, including graduate students (with 12 or more credits scheduled) and those holding graduate assistantships, stipend scholarships, etc.

These treatments, however, are made at the University Hospital and Dispensary on east campus and dormitory calls are not made except in great emergency. One large midwestern university attempted a plan of treating in dormitories and fraternities but found a great misuse of the privilege. It became physically impossible for the staff to cope with the demands, although few if any of the calls were of such nature that the person could not have been moved to the hospital or dispensary.

"We have a community of about 13,000 to be served here," Dr. Glenn points out. "Taking care of a community that size is a tremendous job and we would not be able to do that job properly if we had to make dormitory calls for the usual ailments of the student.

"However, we do not refuse to see a student if a real emergency exists and local physicians are not available."

The Dispensary, now in the west wing of the Hospital, is the place for students to go for examination, diagnosis and treatment of minor accidents and illnesses. The Dispensary is open from 8 a.m. to 5 p.m. weekdays and 8 a.m. to 12 noon on Saturday. At all other times the student should go to the Hospital. The Hospital is provided to handle accidents and illnesses referred to it from the Dispensary and emergency cases when the Dispensary is closed.

"Students should not expect," says Dr. Glenn, "routine, non-emergency treatments at the Hospital during evening hours or weekends since doctors are not in residence. The same policy is adhered to at Centre County and any other hospital which does not have an interne program."

An average of 40,000 student visits are treated yearly at the Dispensary and 1800 in-patients at the Hospital. In addition 2500 X-ray diagnoses, 5200 physical therapy and 6000 dental treatments are made each year. In the clinical laboratory 5000 examinations are made.

Diagnosis, routine medication, dressings, laboratory investigations and seven days bed care at the Hospital each semester are all included under student fees and unusual drugs or injections are charged at a low cost. Bed care beyond seven days per semester is charged at the rate of \$3 per day.

When such emergencies arise that

an ambulance is necessary, the Campus Patrol or the Alpha Fire Company service is available, but even in this large community on campus, there are few cases when this is necessary. Of the thousands of cases treated each year by the Health Service it is rare that the patient cannot get to the Hospital by private conveyance or by walking.

Surgical work, except in the direst emergencies, must necessarily be referred to other hospitals. No student, however, need ever feel that he is not adequately provided for medically at Penn State.

Policy on Vending Machines Announced

A policy related to the installation and maintenance of vending machines on campus has been announced by the office of the president.

Pointing out that a number of campus organizations have run into frustrations and difficulties because of the lack of an established set of rules and procedures and that some installations have been made in unsuitable locations, the announcement set forth the following policy:

1. Vending by machines or any other means will not be permitted on the University campus except by the express permission of the designated University authorities, as outlined in this statement.
2. The commissions on sales from such vending shall not be allowed to accrue to any private individual or unaffiliated, unapproved University organization or group. Income from approved vending operations may accrue only to a University budget approved by the Comptroller for:
 - a. a regular departmental budget
 - b. a student organization budget or scholarship fund approved by the Director of Student Affairs, or
 - c. any other group fund or organization fund approved by the Director of the Department of Personnel Services.
3. In general, vending machines will be permitted only where there is a demonstrable need for them.
4. Perishable items for which proper sanitary inspection cannot be made will not be sold by vending machines or any other method.
5. Food vending machines shall not be approved in buildings served by a snack bar operated by the Department of Food Service.
6. All negotiations and contractual arrangements for installation and operation of vending services except those provided by the Department of Food Service shall be made by the Director of Purchases.
7. Requests for vending machines may be initiated by faculty, staff, students or employees. Such requests must be transmitted by the Dean or administrative officer or officers responsible for the area concerned to the Director of Purchases.
8. The Director of Purchases shall ascertain that the location and installation of vending operations are approved by and registered in the Department of Physical Plant.
9. All requests for on-campus vending, solicitations, concessions or sales of food or drink products, except those provided by the Department of Food Service, are governed by this policy.

Dr. Forss To Speak On Flavor Studies

Dr. David Forss, visiting research associate from Australia, will discuss "New Techniques for Understanding of Flavors," at the biological research conference of faculty and graduate students in the biological sciences, Oct. 9.

The meeting will take place in dining room "A" of the Hetzel Union Building at 5:30 p.m.



Dr. H. R. Glenn
A Community of 13,000

though 62 per cent have some kind of "infirmary" only 11 per cent have hospital care in their own hospitals. Thirteen per cent have a health service psychiatrist, as Penn State does, and only 5 per cent a dentist.

The staff of the University Health Service, headed by Dr. Herbert R. Glenn, is bound by the same code of ethics under which all physicians of the region serve. This means, for example, that Health Service doctors are available for emergency calls in the classroom but faculty and staff members who wish the usual type of medical service which any resident of the area would have must work through his local physician.

There are two exceptions to this in view of the fact neither physical therapy nor psychiatric treatments are

Uranium Film

To Be Shown

The Penn State Chapter of the American Institute of Mining, Metallurgical, and Petroleum Engineers is sponsoring a meeting of the uranium mining industry in 7:30 p.m., October 10, Mineral Sciences Auditorium.

Mr. H. D. Keiser, Chief, Rare and Precious Metals Branch, U.S. Bureau of Mines, will speak and show a 30-minute sound color film.

The film, "The Petrified River—the Story of Uranium," was made jointly by Union Carbide and Carbon Corporation, and the Bureau.

The film covers the story of uranium in the United States from prospecting for ore to the peaceful uses of atomic energy and radioisotopes. Its name is derived from the prehistoric rivers whose beds now lie buried in the mesas of the Colorado Plateau.

Finding uranium is only the beginning of a complicated process of extracting and purification, which is shown at an ore-treatment plant at Uravan, Colorado.

Two Senate Committees

Give Annual Reports

Student Affairs

The Senate Committee on Student Affairs met each week during the academic year. Dr. Kent Forster served as Chairman during the second semester leave of absence of Dr. Henry Brunner.

In addition to considering many matters of a routine nature, the following items are of special note:

During the year the Senate approved the recommended creation of a new Subcommittee on Academic Discipline, and adopted three new recommended rules on academic honesty recommended by the committee. The new rules are W-8, W-9, and M-10.

The Senate also approved a recommended change in membership of the committee, adding two students—the Vice-President of the Student Government Association and the President of the Women's Student Government Association.

The Committee also found dissatisfaction with present rules governing absence from class, and referred the matter to the Senate Committee on Educational Policy for study.

The Subcommittee on Organization Control studied petitions from several new groups and made recommendations leading to the chartering of the following:

Trion, Gamma Sigma, Delta Phi Alpha, Sigma Tau Delta, World Agricultural Service Society, Interlandia Folk Dancers, Student Landscape Society, Cadet Military Council, Koinopia, Pi Sigma Upsilon, Penn State CAP Squadron 1303, and the American Rocket Society. One new publication was approved, *The Prospector*, published by the Mineral Industries Student Council.

There were many meetings of the variously constituted disciplinary committees, resulting in the suspension of 19 students, and probationary status for 30.

The Subcommittee on Social Affairs worked on a re-evaluation of its purposes and instituted a social calendar for campus-wide control of events to prevent conflicts.

Military Instruction

The Committee on Military Instruction met six times during this academic year. Discussions were held and a critical review was made of a series of questions posed by the Committee on Educational Policy. A copy of the report on these questions, prepared by this Committee for the Committee on Educational Policy is appended hereto. (Copy is on file in the office of the secretary.)

The Committee has been engaged in preparation of a statement concerning the intent and activities of the Military Instruction here at The Pennsylvania State University. This is for distribution to the academic staff when completed.

Owing to the fact that the Committee on Military Instruction is a legislative group, the administrative duties of this Committee have been transferred to the Office of the Dean of Men for the administration of the Senate Regulations concerning Military Instruction for the undergraduate student body.

Other Promotions Listed

The following faculty members were promoted to rank indicated some effective July 1, 1956, others July 1, 1955. Previous Faculty Bulletins listed those promoted to other ranks.

Extension Home Economist

Ruth A. Bowman
Florence H. Finger
Jane L. Ifft
Mary E. Kurtz
Clare B. McNabb
Ruth H. Thompson

County Agricultural Agent

Samuel D. Lewis

Associate County Agricultural Agent

Gilbert T. Hess
Samuel H. Horn
Dale P. Jackson
Allen R. Keniston
William R. King
James J. McKeehen
Kenneth R. Maxwell
James F. Pound
Ward M. Stover
John L. Walker
Joseph H. Way
Amos S. Zimmerman

Assistant Professor

Richard C. Adams,
mechanical engineering
Gordon L. Baker,
physics (General Extension)
Walter L. Baker, engineering research
William H. Bellville,
engineering research
Stephen A. Bendick,
engineering (General Extension)
Edgar F. Benner, industrial engineering
Joseph L. Brown,
English composition
(General Extension)
Girard L. Calehuff,
engineering research
Albert S. Carney,
chemistry (General Extension)
Frederick M. Ciletti,
English composition
(General Extension)
H. Trevor Colbourn, history
Chester R. Corsen, English composition
Ernest Dejaiffe,
engineering (General Extension)
Clarence A. Ellsworth,
industrial engineering
Jerome B. Fanucci,
aeronautical engineering
Donald H. Ford, psychology
Malcolm Freiberg, history
Ernest E. Fryer,
clinical speed (General Extension)
Louise W. Hamilton,
nutrition and health extension
Charles A. Herald,
engineering (General Extension)
Roland L. Hicks, journalism
William H. Hill, Jr.,
English composition

Alden R. Hodgen,
engineering (General Extension)
Wilmer W. Hinish, agronomy extension
Robert M. Hoover, engineering research
Kenneth F. Hosterman,
physical education
William A. Hover,
Romance languages
(General Extension)

Carroll L. Howes,
agricultural extension
John A. Huzzard, English composition
Bernard R. Jerman, English literature
Richard N. Jones, farm mechanics
Richard N. Jorgensen, wood technology
Andrew K. Kafka,
English composition
(General Extension)
Helen L. Kinsloe, bacteriology
William L. Kjelgaard,
agricultural engineering
Walter A. Kochanowicz,
engineering (General Extension)
Susan Lawrence, physical education
August F. Lehman,
engineering research
James H. McGinley,
engineering research
George E. MacMillan, psychology
Norman D. Magruder, animal nutrition
Eugene R. Manning,
chemistry (General Extension)
J. Mitchell Morse, English composition
Mabel M. Nemoto, home art
Joan Nessler, physical education
Bernard S. Oldsey, English composition
Robert D. Pashek, transportation
Norman B. Patterson,
mathematics (General Extension)
John E. Pixton, Jr., history
A. Kathryn Pontzer,
English composition
Abe C. Ravitz, English composition
Hermance Reese, physical education
Jerry G. Richter,
mechanical engineering
Samuel L. Rubinstein,
English composition
Cecile P. Sinden,
housing and home-community
relationships
Charles E. Sohl, Jr.,
engineering (General Extension)
Francis J. Sorauf, Jr., political science
James R. Steel, Jr.,
botany (General Extension)
Leroy A. Sweinberg,
engineering (General Extension)
George A. Taylor, plant nutrition
Edward C. Thaden, history
Frank B. Thomas, horticulture
Nathan Tumminello,
engineering (General Extension)
Donald J. Watkins, physical education
Steven S. Weinick,
chemistry (General Extension)
Wesley P. Winter,
industrial engineering
Marjorie J. Wormeck,
nutrition and health extension
Dwight E. Younkin,
animal husbandry extension
John R. Zimmerman,
engineering (General Extension)
Michael Zulkoski,
supervisory training
(Mineral Industries Extension)

Instructors

Robert W. Belfit, Jr.,
petroleum chemistry
Harry Lawroski, petroleum refining

Research Assistant

Lois M. Artz, engineering research
John Holub, engineering research
Francis E. Kaprocki,
engineering research

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday.

Calendar

Friday, Oct. 12

Thespian show, "Hat In the Ring," Schwab Auditorium, 8 p.m. Tickets \$1.25.
Orientation program for new clerical and service employees. Extension Conference Center. Service employees 9 to 10:30 a.m.; clerical employees 10:10 a.m. to 12 noon.
Observatories open 8 to 10 p.m. for observations of the moon and Mars.
Special DHIA meeting, 202 Dairy Building.
Alumni Homecoming. Registration beginning 1:30 in Hetzel Union Building.
Penn State Players production of "My Three Angels." Extension Conference Center, 8 p.m. Tickets \$1.00.

Saturday, Oct. 13

Alumni cider party, 11:30 a.m. to 1 p.m., Hetzel Union Building.
Penn State Players production of "My Three Angels." Extension Conference Center, 8 p.m. Tickets \$1.00.
Thespian show, "Hat In The Ring," Schwab Auditorium, 8 p.m. Tickets \$1.25.
College of Home Economics Homecoming coffee hour. Living Center, Home Ec. Bldg., 9:30-11:30 a.m.

Sunday, Oct. 14

Chapel Service, Schwab Auditorium, 10:55 a.m. Dr. Robert L. Calhoun, Yale University.
Pennsylvania Regional meeting, National Association of Educational Buyers.
Meeting of U.S. National Committee on the International Commission on Illumination.
Colloquy on Religion, 8:15 p.m., 121 Sparks Building. Also at same time and place on Monday, Oct. 15, and Tuesday, Oct. 16.

Concert Assn. Campaign Ends With Complete Sellout

The quota of 1,230 memberships in the State College Concert Association was completely filled last week and the Association plans to schedule five concerts as a result, David H. McKinley, president of the Association, has announced.

Already the Pittsburgh Symphony, the Westminster Choir, and soprano soloist Eileen Farrell have been booked.

McKinley pointed out that students bought 40 per cent of the memberships, compared to only 16 per cent last year.

Miss Farrell will open the season on October 29.

Award Made to Stoddart

An award of a plaque and engraved wristwatch was recently made to Charles W. Stoddart, Jr., director of physical education extension, by the Pennsylvania Association of Police Chiefs.

Monday, Oct. 15

Faculty Luncheon Club, Dining Room "A," Hetzel Union Building, 12 noon. Speaker, A. H. Reede, professor of economics, on "Social Security for Public Employees."

Tuesday, Oct. 16

Physics Colloquium, 4:10 p.m., 117 Osmond Lab. Dr. E. M. Griest, Corning Glass Works, on "Conducting Film on Glass."

Meeting of Penn State branch of ASEE, 7 p.m., 105 Mechanical Engineering Bldg. Topic: "Crisis In Nuclear Education."

Meeting of American Society for Metals, 7:30 p.m., Mineral Sciences Auditorium. T. W. Lippert, Titanium Corp. of America, on "Application and Metallurgy of Titanium and Its Alloys."

Meteorology Seminar, 4 p.m., 121 Mineral Industries. Irwin Kaplan, graduate assistant in meteorology, on "Mesoanalysis of Meteorological Data."

Daily morning worship service in the Chapel, 8:10 a.m.

Wednesday, Oct. 17

Faculty Women's Club coffee hour, 7:30 to 9:30 p.m., main ballroom, Hetzel Union Building.

Forestry Convocation, 11 a.m., 121 Sparks Building. Movie: "Good Business" presented by the Champion Paper and Fibre Co.

Daily morning worship service in the Chapel, 8:10 a.m.

Thursday, Oct. 18

Faculty meeting, College of Engineering and Architecture, 4:10 p.m., Hetzel Union Building Auditorium.

Graduate School Lecture Series, 8 p.m., Schwab Auditorium. Dr. Harlow Shapley, Paine professor of astronomy, Harvard University, on "Man's Fourth Adjustment to the Universe."

Engineering Mechanics Seminar, 1:15 p.m., 203 Engineering "A." Speaker: W. G. Wood, assistant professor of engineering mechanics, on "Graphical Methods in Stress Wave Propagation."

Thursday Vesper services, 4:30 p.m., Chapel, in charge of the Episcopal group.

Daily morning service in the Chapel, 8:10 a.m.

Enrollment Reaches 16,045 Surpassing Last Year's Record

A record enrollment of 13,147 full-time and part-time students on campus and of 16,045 including off-campus centers and Mont Alto was announced by the Registrar's Office. (A complete summary is found on pages 2 and 3.)

The campus enrollment includes 11,395 full-time undergraduate and 481 full-time graduate students and 270 part-time undergraduate and 1001 part-time graduate students.

Off campus, the ten centers reported a total of 2783 enrollees in four-year, two-year and special programs. At Mont Alto, 114 freshmen are enrolled for forestry work.

The total registration figures are new records.

Twelve Trustees Visit Campus

Twelve members of the Board of Trustees of the University visited the campus last week to see and learn firsthand more about Penn State's programs in instruction, research and extension.

The trustees included Fred E. Bittenbender, Shickshinny; Charles H. Boehm, State Superintendent of Public Instruction, Harrisburg; George H. Deike, president of the Board, Pittsburgh; Richardson Dilworth, mayor of Philadelphia; Charles T. Douds, Englewood, N.J.; H. Thomas Hallowell, Rydal; William D. Harkins, Philadelphia; B. C. Jones, Greensburg; William L. Henning, State Secretary of Agriculture, Harrisburg and State College; J. E. Holtzinger, Altoona; Frank W. Ruth, Lykens; and Mrs. Carvel Sparks, River- ton, N.J.

Three discussion sessions and a tour of the campus were held for the trustees. The discussions, attended by President Eric A. Walker and his staff, members of the Council of Administration, and faculty members especially interested in the specific topics, were given on "The Educational Program," "Extension Instruction and the Centers," and "The Research Program."

The tour of the campus included inspection of the Chapel, Animal Research Center, classes taught by television, Hetzel Union Building, Osmond Laboratory, and the computer laboratory.

Dr. Walker's Office Changed

The office of Dr. Eric A. Walker, president of the University, has been changed to Room 201, Old Main, and the telephone extension is 421.

Observatories Open

Weather permitting, the University observatories will be open to the public tonight (Friday) from 8 to 10 p.m. for observations of the moon and Mars. The planet Mars is still in good position for evening observations, Dr. Carl A. Bauer, assistant professor of physics, reports.

Registrar Reports on Total Enrollment for Fall Semester, 1956-57

	1 Sem	2 Sem	3 Sem	4 Sem	5 Sem	6 Sem	7 Sem	8 Sem	Total
Agriculture									
ABCh	9	1	5	1	12	—	11	2	41
AERS	11	—	4	1	7	3	14	2	42
AgEd	40	1	28	3	38	7	47	7	171
AgJ	—	—	—	—	1	1	3	—	5
Agro	10	—	11	—	10	2	9	3	45
AH	39	2	25	2	20	8	32	7	135
Bact	6	1	4	—	16	1	5	1	34
BPP	—	—	2	—	—	—	2	—	4
Consv	—	—	4	1	1	—	—	—	6
DSc	20	—	33	3	25	3	24	8	116
GnAg	16	1	11	1	17	2	12	3	63
Hort	23	1	22	4	28	2	28	8	116
MedT	30	—	18	—	12	—	8	1	69
PH	4	—	1	—	2	—	1	—	8
PV	28	5	23	2	17	3	—	—	78
ZE	17	—	6	—	8	1	9	1	42
2Ag	18	2	12	2	3	1	1	—	39
School of Forestry									
For	—	—	58	4	59	2	38	12	174
WU	—	—	5	2	5	4	5	2	23
Total	271	15	272	26	281	40	249	57	1211
Business Administration									
BA	336	19	260	79	351	75	330	75	1525
Total	336	19	260	79	351	75	330	75	1525
Chemistry & Physics									
ChE	151	4	80	7	52	4	49	7	354
Chem	48	3	27	2	25	3	18	1	127
CCh	—	—	—	—	2	—	1	1	4
Phys	40	5	33	4	25	2	23	8	140
PM	58	4	35	3	30	—	27	—	157
Sc	14	1	3	—	10	3	15	3	49
Total	311	17	178	16	144	12	133	20	831
Education									
AEd	7	2	7	3	9	1	10	3	42
Ed	196	18	207	15	223	23	248	38	968
IArt	2	2	7	4	18	1	15	14	63
MusEd	28	6	18	2	11	4	16	3	88
Psy	52	4	48	12	27	5	39	7	194
VIEd	1	—	2	—	4	1	3	—	11
Total	286	32	289	36	292	35	331	65	1366
Engineering & Architecture									
AeroE	126	—	72	5	41	2	33	3	287
AgE	24	—	11	—	16	2	10	4	67
Arch	37	2	28	5	18	—	19	1	110
AE	27	—	16	1	5	1	10	7	67
CE	134	7	75	14	55	16	58	18	377
EE	298	27	199	70	199	38	62	48	941
ESc	—	—	16	—	15	2	13	18	64
IE	68	6	31	—	49	9	162	30	355
ME	174	17	131	6	115	20	98	30	591
SE	—	—	3	25	—	1	3	—	32
Total	888	64	582	126	513	91	468	159	2891
Home Economics									
HEc	126	3	112	5	147	5	121	13	532
HA	28	6	31	3	32	4	34	7	145
Total	154	9	143	8	179	9	155	20	677
The Liberal Arts									
AL	291	18	200	37	249	28	226	52	1101
Journ	58	1	60	7	58	9	48	10	251
LMR	6	—	11	5	13	2	23	7	67
AArt	18	—	23	3	10	1	7	1	63
Arts	2	1	6	1	13	—	7	1	31
Total	375	20	300	53	343	40	311	71	1513
Mineral Industries									
Cer	18	2	12	1	9	2	5	—	49
FT	17	—	—	—	1	—	—	2	20
Geog	1	—	2	—	3	1	7	2	16
G&G	5	1	7	2	10	2	2	—	29
G&M	25	1	12	1	7	4	13	7	70
Metal	50	—	31	—	31	4	25	4	145
Meteo	11	2	11	1	9	3	35	3	75
MnEc	2	—	—	—	—	—	5	1	8
MPE	3	—	—	—	—	1	1	1	6
Mnge	11	2	6	—	2	1	10	9	41
PNGE	25	4	18	3	14	—	19	4	87
Total	168	12	99	8	86	18	122	33	546

Registrar Reports on Total Enrollment for Fall Semester, 1956-57

	1 Sem	2 Sem	3 Sem	4 Sem	5 Sem	6 Sem	7 Sem	8 Sem	Total
Physical Education & Athletics									
PhEd	45	5	46	12	46	6	43	10	213
RcEd	7	1	10	1	12	1	8	2	42
Total	52	6	56	13	58	7	51	12	255

Division of Intermediate Registration

DIR	—	15	380	60	112	6	10	1	584
TOTAL	2741	209	2559	425	2359	333	2160	513	11399

	Freshmen		Sophomores		Juniors		Seniors		Graduate		Special		Totals		
	M	W	M	W	M	W	M	W	M	W	M	W	M	W	T
Campus															
Full-time	2314	727	2299	678	2047	630	2056	594	405	76	39	11	9160	2716	11876
Part-time	5	4	3	4	8	7	10	13	781	220	69	147	876	395	1271
Total on Campus	2319	731	2302	682	2055	637	2066	607	1186	296	108	158	10036	3111	13147

Centers (See summary below)

Full-time (4-Yr)	748	348	274	45	4	—	—	—	—	—	—	—	1026	393	1419
Full-time (2-Yr)	796	28	436	10	10	—	—	—	—	—	—	—	1242	38	1280
Part-time (4-Yr)	7	1	3	—	3	—	—	—	—	—	22	5	35	6	41
Part-time (2-Yr)	19	—	18	—	3	—	—	—	—	—	3	—	43	—	43
Total Centers	1570	377	731	55	20	—	—	—	—	—	25	5	2346	437	2783

Mont Alto

Full-time	114	—	—	—	—	—	—	—	—	—	—	—	114	—	114
Part-time	—	—	—	—	—	—	—	—	—	—	1	—	1	—	1
Total Off Campus	1684	377	731	55	20	—	—	—	—	—	26	5	2461	437	2898
Total on and off campus	4003	1108	3033	737	2075	637	2066	607	1186	296	134	163	12497	3548	16045
	5111		3770		2712		2673		1482		297		16045		

Summary of Off Campus Enrollment, Fall Semester, 1956-57

	Four-Year		Specials		Two-Year		
	Full-Time	Part-Time	Part-Time	Part-Time	Full-Time	Part-Time	Total
Centers							
Allentown	—	—	1		97	3	101
Altoona	220	3	4		167	7	401
Behrend	123	4	21		91	7	246
DuBois	83	3	—		42	—	128
Hazleton	198	1	3		99	2	303
McKeesport	—	—	—		136	5	141
New Castle	—	—	—		38	1	39
Ogontz	588	3	—		117	1	709
Pottsville	207	—	—		91	—	298
Scranton	—	—	—		92	2	94
Wilkes-Barre	—	—	—		177	6	183
York	—	—	1		133	6	140
Mont Alto	114	—	1		—	—	115
Total Off Campus	1533	14	31		1280	40	2898

Recapitulation

	M	W	Total
Campus			
Full-time undergrad.	8755	2640	11395
Part-time undergrad.	95	175	270
Total undergrad.	8850	2815	11665
Full-time graduate	405	76	481
Part-time graduate	781	220	1001
Total graduate	1186	296	1482
Total all students	10036	3111	13147
Off Campus			
Full-time undergrad.	2382	431	2813
Part-time undergrad.	79	6	85
Total all students	2461	437	2898
On and Off Campus			
Full-time undergrad.	11137	3071	14208
Part-time undergrad.	174	181	355
Full-time graduate	405	76	481
Part-time graduate	781	220	1001
Total	12497	3528	16045

Graduate and Special Students by Colleges

	Graduate		Special	
	M	W	M	W
Agriculture	219	17	15	1
Business Admin.	39	2	10	13
Chem. and Phys.	221	11	14	—
Home Economics	—	69	—	20
Liberal Arts	125	55	25	72
Education	234	131	21	50
Eng. and Arch.	129	—	12	—
Mineral Ind.	191	3	10	1
Phys. Ed and Ath.	28	8	1	1
Total	1186	296	108	158
	1482		266	



In charge of programming for the digital computer is Dr. Donald T. Laird, left, with Mrs. Danuta Hiz, who will help in programming. At right are Harold L. Ergott, standing, engineer for the computer, with Mearle K. Smith, chief operator.

Variety of Problems Solved By Computer

FOR those to whom time, accuracy, and expense may be considerations in the solution of mathematical problems the "mechanical brain" called the digital computer may be the answer.

The freshman or sophomore still struggling with algebra and calculus will find the computer of no help but many faculty members, particularly those in research, will have use for the University's computer called "PENN-STAC" (Penna. State Automatic Computer). The variety of its uses has scarcely been touched.

Already, however, Pennstac has been used in a preliminary way to help agricultural economists determine the correct mixture of feeds to use to obtain the most economical cattle feed supplement. On other tasks, meteorology, mineralogy, and ionosphere researchers have found reason to plan programs using the computer.

The new computer laboratory in the Electrical Engineering Building has been set up to solve problems which ordinarily require days and weeks of tiring mental gymnastics and to solve them in relatively little time. It will also serve as an educational laboratory not only for students in electrical engineering but in many other fields where computers are widely used. A third use is in serving non-campus organizations.

Harold I. Tarpley, professor of electrical engineering, is director of the computer facilities and chairman of a committee to consider requests for educational computer work. The committee is composed of faculty members who have already had considerable connection with and interest in computers, including Dr. John C. Griffiths, Mineral Industries; Dr. Robert F. Hutton, Agri-

culture; Dr. Mary Lister, Liberal Arts; and Dr. Arthur Rose, Chemistry and Physics. Prof. Robert W. House and Dr. Donald T. Laird, both members of the electrical engineering faculty, are ex-officio members of the committee.

Dr. Laird, who is in charge of programming for the computer, points out that the computer is able to store up information given to it, making possible solutions to problems ordinary computing machines cannot handle.

In the problem of feed mixing, for example, data are given to the machine in terms of prices of component food materials, the nutritive values, bulk, fiber and limiting values placed on each to obtain certain properties such as palatability. The object is to determine a feed mixture which will answer the basic requirements at the lowest cost. Many feed mills change formulas several times in a day, depending on the price of the various grains, hay, etc. Rapid and accurate calculations can mean thousands of dollars to the mills and ultimately to the farmer.

In meteorology, Dr. Hans Panofsky and others have been making calculations involving wind forces, in a project sponsored by the Air Force. Data on wind components (east and west, north and south, and up and down) are fed into the computer to determine the "power spectrum." These data are taken from graphs involving only a few seconds time. The results are of interest in relation to the dispersion of air pollution, and turbulence of the air. While the results could be computed by ordinary machines, the calculations are time consuming and boring, and therefore subject to more errors.

In other meteorology work, the U. S.

Weather Bureau is now making use of digital computers to help in preparing weather forecasts and there is some promise that forecasts can be pinpointed much more readily than they have been in the past because data of many types from all over the country can be assimilated and used.

During the feeding of data a complete control system tells the engineer whether anything is at fault in the machine and even in the instructions being given to it. It is not necessary to start the problem over again, as would sometimes be necessary in conventional methods of solving such problems.

For only sponsored research are charges made for the technical services and use of the computer. Research involving problems of numerical analysis, solution of simultaneous equations, ordinary and partial differential equations will find many uses for the computer.

Many such research projects avoided solution to some problems because of their complexity. With digital computers many of these problems are being resurrected so that there is a backlog of work to be done. In exceptional cases some problems would have required more than a lifetime for solution but are now capable of solution in a few weeks.

The Pennstac computer is classed a medium speed device and is generally suited to scientific and engineering problems rather than those of business analysis, but these are not excluded. In fact, there may be no college in the University which will not find some use for it. Industry in the State will undoubtedly also come to Penn State for help.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, Oct. 19

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. Arno C. Fieldner, former chief fuels technologist, U.S. Bureau of Mines, on "Around the World Cruise."

Keystone Kiln Drying Association Conference.

Fall meeting, Middle Atlantic Association of Colleges of Business Administration.

Penn State Players production of "My Three Angels" at Extension Conference Center, 8 p.m. Tickets \$1.

Saturday, Oct. 20

Cross country, Navy, 1:30 p.m.

Soccer, Colgate, 2:00 p.m.

Players production of "My Three Angels," Extension Conference Center, 8 p.m., tickets \$1.

Graduate Day, Home Economics, 10 a.m. to 4 p.m.

Sunday, Oct. 21

Chapel service, Schwab Auditorium, 10:55 a.m. Dr. Rollo May, consulting psychologist, New York, N.Y.

Liberal Arts Tea, 3 to 5 p.m., in the lounge of the Chapel.

Monday, Oct. 22

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Dr. John S. Boyle, assistant professor of plant pathology, on "Life in Guatemala."

Board meeting of Penna. Dairymen's Association.

Penna. Purebred Dairy Cattle committee meeting.

College of Home Economics faculty meeting, Room 14, Home Ec Building, 4:10 p.m.

Films To Be Previewed

The Audio-Visual Aids Library has requested the following films for preview. Faculty desiring to be notified when prints arrive should call Extension 2051.

"The Woodcock"
"No Time to Spare" (new method of artificial respiration)

"The World at Your Feet" (conservation)

"Story of Bananas"

"Story of Coffee"

"What Goes into the Blast Furnace"

"What Comes out of the Blast Furnace"

"Iron Making"

"Appointment with Youth" (work of a teacher)

"Egypt and Israel" (Edward R. Murrow)

"The Rebirth of a Nation" (Czechoslovakia)

"Tomorrow Is Theirs" (Malaya's children)

"A Short Vision" (a cartoon of the end of the world)

"Individualized Reading Instruction in the Classroom"

"Divertissement Rococo" (motion picture art)

"Education Moves Out-of-Doors" (school camps)

"Industrial Research: Key to Jobs and Progress"

"Pioneer Journey across the Appalachians"

"Keyboard Experiences in Classroom Music"

"Rabies Control in the Community"

Tuesday, Oct. 23

Plant Science Club meeting, 7:30 p.m., Room 111, Plant Industries. Dr. C. C. Wernham, professor of plant pathology, on "Pictorial Highlights of a Visit to South Africa."

Rehabilitation Institute meeting.

Chapel morning service, 8:10 a.m.

Meteorology Seminar, 4:10 p.m., 121 Mineral Industries. Dr. Carl Bauer, associate professor of astronomy, on "Meteoroids in the Upper Atmosphere."

Physics Colloquium, 4:10 p.m., 117 Osmond. J. J. Taylor, Westinghouse Atomic Power Div., Pittsburgh, on "Reactor Physics Problems and the Development of a Power Reactor."

Wednesday, Oct. 24

Morning chapel service, 8:10 a.m.

Thursday, Oct. 25

Liberal Arts Lecture series, 8 p.m., 121 Sparks Building. Richard Eberhart, Poet in Residence, Dartmouth College, will read from his poetry.

Morning chapel service, 8:10 a.m.

Engineering mechanics seminar, 1:15 p.m., 203 Engineering "A." John Goodman, instructor in engineering mechanics, on "Design of Thrust-Reversers for Jet Engines."

Meeting of the Liberal Arts faculty, 4:10 p.m., 121 Sparks.

Friday, Oct. 26

Faculty meeting, College of Agriculture, 109 Armsby Hall, 4:10 p.m.

Meeting of directors of Penna. Flower Growers.

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. R. N. Clayton, assistant professor of geochemistry, on "Application of Oxygen Isotope Studies to Hydro-thermal Alteration."

Players Show, "My Three Angels," at Extension Conference Center, 8 p.m. Tickets \$1.

Study Shows Distribution Of Spring Semester Grades

A statistical analysis of grades made by all undergraduate students on campus last spring reveals A's or B's were earned in 45.7 per cent of all courses taught.

The study also showed that of the 64,230 grades assigned, only 3.7 per cent were F's.

The grade distribution study is made by the Registrar's Office where they are available in printed form. The offices of the several deans and of departments also have received copies.

The study is made for each college and curriculum and shows grades by courses as well as by students registered in each curriculum.

Niesley Dies

Paul G. Niesley, who was county agent in Columbia County for 35 years before his retirement in March of this year, died Oct. 5 at Bloomsburg, Pa.

MacKenzie Appointed Special Assistant

Dean Ossian R. MacKenzie, College of Business Administration, has been appointed special assistant to the President for business affairs.

The appointment, to continue until June 30, 1957, was approved at the meeting of the Executive Committee of the Board of Trustees last weekend.

MacKenzie will continue as dean of the College of Business Administration while also supervising operations in housing, food service, purchasing, physical plant, and personnel services in the new position.

Concert Association Completes Program

Moura Lympamy, English-Hungarian pianist, and William Primrose, viola soloist, have been added to the program of the State College Concert Association to bring the number of concerts to five.

David H. McKinley, president of the Association, said that Miss Lympamy will appear in Schwab Auditorium on January 10 and Mr. Primrose on December 12. He had previously announced that Eileen Farrell, soprano, would open the concert series on Oct. 29 and that the Pittsburgh Symphony would follow on Nov. 20. The Westminster Choir will conclude the series on Feb. 20.

Miss Lympamy is well-known to record collectors for her recordings. Mr. Primrose was former soloist with the NBC Orchestra and is also a successful recording artist.

Kapp To Retire

P. Boyd Kapp, professor of engineering mechanics, will retire on Jan. 31 with the title of professor emeritus of engineering mechanics after serving more than 36 years on the faculty.

The retirement of Dr. Harrison M. Tietz, professor of anatomy and physiology, approved in August to become effective Oct. 1, has been cancelled and Dr. Tietz has returned to the faculty.

Central Library

Miss Mildred A. Smith

Senate Minutes

The University Senate met at 4:10 p.m. on Thursday, October 4, 1956 in the Assembly Room of the Hetzel Union Building with Provost Larry Dennis presiding. The minutes of the May 31 meeting were approved as printed in the Faculty Bulletin for June 8, 1956.

The Provost welcomed Dr. M. A. Williamson, Dean of the College of Engineering and Architecture, and asked that the deans or assistant deans be prepared to introduce the new senators at the next meeting. One hundred fifty-nine senators signed the roll.

Communications From University

Officers

Letters were received from senators unable to be present and naming substitutes. The substitute is designated in parenthesis following the name of the senator: S. Lewis Land (J. F. Friese), Hummel Fishburn (G. W. Henninger), G. G. Quarles (Arnold Addison), E. R. Queer (W. E. Ranz), H. J. Read (H. M. Davis), W. H. Walters (R. D. Reifsnider), F. G. Brickwedde (F. L. Carnahan), E. C. Bischoff (D. J. Watkins), C. M. Speidel (C. M. Sykes), and H. B. Charnbury (H. L. Lovell).

Excerpts from the minutes of the meeting of the Board of Trustees of June 8 were read as follows:

Approval of the transfer of the Curriculum in Applied Arts from the College of Engineering and Architecture to the College of the Liberal Arts, School of the Arts, with a change in title to Applied Art.

Approval of a transfer of the academic major in Art, the major in Dramatics, and the major in Music to a new Curriculum in The Arts.

Approval of a change in the major in Art Education to a Curriculum in Art Education.

Approval of an amendment to Article I, Section 1 of the Senate Constitution to include the "Vice-President of the University" in the membership of the Senate.

A recommendation from the Committee on Committees, which had been approved by the President, that F. M. Coombs replace E. C. Bischoff on the Committee on Committees until February 4, 1957, was received.

A letter from C. I. Noll, Assistant Dean of the College of Chemistry and Physics, that Joseph Jordan had been elected to serve as a senator until June 1957, replacing A. W. Hutchison, who is Acting Head of the Department for this period.

Reports of Standing Committees

R. B. Saylor, Chairman of the SENATE COMMITTEE ON CALENDAR, presented the report which had been distributed with the agenda as Appendix "A." He explained the reasons for the change and moved the adoption of the report. The motion was seconded. There was a lengthy discussion on the motion in which it was pointed out that once a calendar is published it should be adhered to because of commitments which are made by the various organizations and faculty and staff members. The motion to adopt the report as presented was passed. The report as approved by the Senate is as follows:

That the January dates in the University Calendar for the Fall Semester 1957-1958 be revised to read as follows:

Jan. 2, Thurs. Christmas Recess ends 1:10 p.m.

*Jan. 13, Mon. Fall Semester classes end 5:00 p.m.

Jan. 14, Tues. Fall Semester examinations begin 8:00 a.m.

Jan. 22, Wed. Fall Semester ends 5:30 p.m.

Jan. 26, Sun. Fall Semester Graduation Exercises

* On January 13, Monday, the morning classes shall be according to the Thursday morning schedule; the afternoon classes shall be according to the Wednesday afternoon schedule. (This provides for fifteen meetings for each half day of the week during the semester.)

R. G. Bernreuter, Chairman of the SENATE COMMITTEE ON COMMITTEES, presented the report which had been distributed at the meeting, and stated that Section A was new business and should lie on the table for one month and, if passed, go to the Board of Trustees for approval. Section A is as follows:

Amend Article I, Section 1 of the Constitution, to add, and four members-at-large appointed by the Senate upon nomination by the Committee on Committees, for a period of two years, two (2) being elected each year.

Mr. Bernreuter explained that Section B contained six recommendations, one of which, item 3, was old business and could be acted on at this meeting. The other five should lie on the table for one month, and do not need to go to the Board of Trustees for approval. Section B is as follows:

Amend Article II, Section 1(f) of the By-Laws, by adding, and the Provost, ex officio. Amend Article II, Section 1(g) of the By-Laws, by adding, and the Provost, ex officio. Amend Article II, Section 1, of the By-Laws, by adding a new committee Research Policy, seven members.

Amend Article II, Section 1, of the By-Laws, by adding a new committee Extension Policy, five members.

Amend Article II, Section 2, of the By-Laws, by adding Research Policy: — The Committee on Research Policy shall make recommendations concerning research policy pertaining to educational matters.

Amend Article II, Section 2, of the By-Laws, by adding Extension Policy: — The Committee on Extension Policy shall make recommendations concerning extension policy pertaining to educational matters.

The Chair read excerpts from the June 1954 and May 31, 1956 minutes of the Senate meetings and stated that item three of Section B could be acted on at this meeting. H. K. Schilling moved that action be postponed until the report of the Senate Committee on Educational Policy had been presented since it had a bearing on this item. It was agreed that Mr. Schilling should present the report which had been distributed with the agenda as Appendix "C."

Mr. Schilling presented the report of the Senate COMMITTEE ON EDUCATIONAL POLICY as follows:

The Committee on Educational Policy wishes at this time to recommend that the University Senate establish two additional standing committees to be called, respectively, The Committee on Research Policy, and the Committee on Extension Policy, each composed of one member from each of the Colleges and the Graduate School. It would like to give further consideration to, and at a later date make commendations regarding, two questions: first, that of ex-officio memberships of these committees, and, second, that of the proper relationships of these committees to the Committee on Educational Policy.

The Committee on Educational Policy recommends further that the Provost, the University Coordinator of Research (title not yet definitely determined), the University Director of Extension be ex-officio-non-voting members respectively of the Senate Committee on Educational Policy, Research Policy and Extension Policy.

The main difference between the recommendations as made by the Educational Policy Committee and the Committee on Committees is that the ex officio members would be non-voting members. Mr. Schilling moved that the recommendation of the Committee on Committees in item 3 of Section B lie on the table until the next meeting. The motion was seconded and passed. The entire report of the Senate Committee on Committees will be a matter of unfinished business at the next meeting.

Mr. Schilling then moved the adoption of the report of the SENATE COMMITTEE ON EDUCATIONAL POLICY. The motion was seconded. The chair ruled that this report would lie on the table until the next meeting.

Old Business

P. A. Shelley, chairman of the SENATE COMMITTEE ON COURSES OF STUDY, referred to the proposals as presented at the May 31 meeting, Appendix "C" in this agenda, and stated that they were proposals by the chairman and not the committee. He pointed out that of 635 actions last year, 34 new courses is not excessive. Some members of the Senate think the committee is too lenient. Perhaps the proposals not approved should be reported. One of the criticisms from the Middle States Evaluation Team was that proliferation of courses and fragmentation of curriculums has gone too far. There has been mention of another committee to work on course proposals. Mr. Shelley stated that many factors enter into the decisions of the Committee; for instance, a new man on campus who has been hired to do a specific job, a new piece of machinery or apparatus, or a new program such as the "Winter Course Program in Agriculture," which make the proposals almost mandatory. Mr. Shelley moved the adoption of the report as presented at the May 31 meeting and printed on pages 816 and 817 of the official minutes. L. S. Roudiez moved an amendment to the motion to delete paragraphs 1, 2, and 3. The motion was seconded. After considerable discussion A. W. Hutchison moved that the amendment be amended by substituting for paragraph 1 "that the Senate request the faculties of the several Colleges to reduce to a minimum the proposal of new courses during the academic year 1956-57;" and for paragraph 2 substitute "urge that departments submit proposals for dropping and combining existing courses." The Chair asked if the proposer of the original amendment would withdraw in favor of the amendment to the amendment. The proposer, was willing but the seconder was not,

so the Senate voted on the amendment to the amendment. The motion was lost. The Senate then voted on the amendment to delete paragraphs 1, 2, and 3 from the original motion. The motion was passed. The motion to adopt the report, as amended, was lost.

Comments and Recommendations for the Good of the University

D. H. McKinley announced the State College Concert Association Membership Campaign which is now in progress.

Mr. Schilling announced that Dr. Raymond Segar representing the National Science Foundation would be on campus Monday, October 8 to explain the workings of the Foundation to interested members of the faculty. The meeting will be in the Mineral Industries Auditorium at 8 p.m.

The Provost announced that on October 2 in the Assembly Room of the HUB there will be a panel discussion on general education led by E. W. Callenbach, R. W. Condee, H. A. Cutler, and P. M. Althouse.

The Provost also announced that on October 2 and 3 about a dozen of the Trustees of the University had met on the campus for an informal orientation meeting. They discussed educational policy problems at the University, general extension, and research. The Trustees said the meetings had been highly informative and helped them to understand our problems. It is hoped to have similar meetings in the future.

The next meeting of the Senate will be on November 1, with the agenda being distributed on October 18, 1956.

The meeting adjourned at 5:35 p.m.

Ray V. Watkins, acting for C. O. Williams, Secretary

Report from the Registrar

Withdrawals (Campus)

- 1 Baglino, John P., EE, Oct. 3
 - 3 Binford, James Robert, ME, Oct. 4
 - 1 Beistel, David F., AgEd, Sept. 21
 - Gr Chevalier, Charles E., ME, Oct. 3
 - 2 Craver, James Edward, CerT, Sept. 28
 - 3 Davco, Patricia Ann E., BE, Oct. 5
 - 1 Faiola, Robert Anthony, ME, Oct. 1
 - 5 Flack, Charlotte M., HEC, Sept. 27
 - 1 Forsythe, Donald Edmund, BusAd, Oct. 5
 - Gr Goldshlak, Leon, Meco, Oct. 4
 - 5 Harding, Richard B., DIR, Sept. 20
 - Gr Knorr, Kenneth Eugene, Econ, Oct. 2
 - 1 Liberman, Sheldon, P-V, Oct. 3
 - Sp Mathieu, Margaret K., Sept. 26
 - 7 Mosebarger, John W., ME, Oct. 3
 - Gr Mudrich, Alfred Carl, Oct. 1
 - 3 Ott, Michael C., DIR, Sept. 21
 - 1 Patula, Richard John, Geol, Oct. 4
 - Gr Riva, Daniel F., Oct. 1
 - 1 Roberts, John Rush, EE, Oct. 2
 - 1 Sanders, Gordon Carroll, BusAd, Sept. 28
 - 3 Savory, James K., DIR, Oct. 3
 - 3 Schmoll, Allen Frederick, ChE, Oct. 2
 - 3 Skelton, II, William James, BusAd, Oct. 1
 - Sp Southern, M. Lucile, Oct. 1
 - 3 Strager, Veronica C., BusAd, Oct. 1
 - 7 Storch, William Charles, EE, Sept. 29
 - 3 Tait, William Armstrong, Jr., DIR, Sept. 28
 - 1 Warmkessel, James Henry, BusAd, Oct. 4
 - 1 Wingard, Donald Eugene, A&L, Oct. 6
 - Sp Wisor, Harold C., Sept. 24
 - 7 Yeager, Robert D., LMR, Oct. 3
 - Gr Zeigler, James Allen, Psy, Sept. 29
- The following reasons were given for withdrawing: Personal 22, Scholastic 1, Illness 3, Military Service 1, Financial 1 and Other 5.

Change of Names

Ayars, Martha Jean from Craig, Martha Jean Baker, Mary Lou from Dubson, Mary Lou Bates, Jane H., from Hartzell, Mary Jane Carson, Shirley, VanSant from VanSant, Shirley Mae Eckel, Carol Birkett from Birkett, Carol Felts Glenn, Jane Alberta from Bastow, Jane Alberta Gore, Virginia Katherine from Witte, Virginia Katherine Grimmer, Patricia Ann from Collins, Patricia Ann Krumrine, Mary Louise Elliott from Elliott, Mary Louise Miller, Ruth Wagner from Wagner, Ruth Naomi Moffatt, Helen Collette from Mangus, Helen Collette Palmer, Shirley Sutherin from Sutherin, Shirley Ethel Sarver, Mary Joan from Murphy, Mary Joan Unterleithner, Helen Dorothy from Sheplavy, Helen Dorothy Wigginton, Joanne Kirk from Kirk, Joanne Ethel Wilkins, Phyllis Resa from Stiefer, Phyllis Resa

University Press Committee Studies Rules and Policies

THE new University Press will offer Penn State an opportunity to publish faculty manuscripts without the usual expensive organization needed to issue books.

"In the past," says Louis H. Bell, executive director of the new Press, "the biggest obstacle in establishing the Press was this—we felt that we had to maintain such permanent services as selling, promotion, production, stocking, inventorying and the like. And we knew that, with only two or three titles a year, the cost of these would be prohibitive."

The solution came, he explained, when a large existing university press offered to provide all these services, through its own extensive and experienced organization, at relatively low cost per book.

With the problem thus simplified, the trustees approved a small grant and Dr. Eisenhower appointed a committee of six to establish the policies and conduct the affairs of the new Penn State organization.

Known as the University Press Committee, this group will seek manuscripts, appraise them with the help of authorities in the particular field and act as liaison with the cooperating university press.

What kind of books will the new Penn State Press publish?

"We're just in the process of formulating this policy," Bell said. He pointed out that the mandate of the Board of Trustees' action is that the Press would give Penn State faculty members an opportunity to publish books principally of a scholarly nature.

Bell believed that the spirit of the

committee's feeling was this: that no regulation should be made that would prohibit the publication of any good book, whatever the category; that the committee would not seek text book manuscripts; and that the publications should be full-fledged, ranging from monographs to comprehensive studies, rather than booklets, pamphlets, and the like. The complete, official policy, he said, will be made known to all, after the committee has carved it out.

The University Press Committee consists of Dr. Kinsley R. Smith, professor of psychology; Dr. George E. Brandow, professor of agricultural economics; Christian K. Arnold, associate professor of engineering research; Dr. E. Willard Miller, professor of geography and head of the department; and Richard C. Maloney, assistant dean, College of the Liberal Arts.

"The most difficult thing to make clear about the Press," Bell said, "is that it involves no property such as a printing press, bindery, or the like. It is simply an organization which, through its committee, will set regulations and policy, seek manuscripts for publication, and arrange to have them published and sold."

Does the Press expect to receive many manuscripts?

So far, three have been sent in, and others are invited, although no formal call will be made until after the committee has decided on policy. The committee is hopeful, Bell says, and points to the existence of more than 20 books published by Penn State faculty members through other university presses, including Oxford, Harvard, Yale, Princeton, Columbia, and Cornell, in the past six years.

What are the expected problems?

For one thing, finances of the Press are limited. The trustees made no annual grant but created a revolving fund, which could disappear quickly with a few failures. The committee feels, however, that finances of the Press could be strengthened by contributions through the Penn State Foundation.

For another thing, the Committee hopes that the faculty which has sought a Penn State Press for so many years will help to sustain it and strengthen it by publishing good books through it, even when there is opportunity to publish through a better known university press.

The Press was not created for profit, and the committee hopes that it will find two or three titles a year in the early stages that will not create too big a deficit.

As one committee member put it, "We are not averse to publishing a popular book, if it will bring in enough profit to support one or two other books that may be more important but not so much in demand."

Items of Interest

Benjamin W. Niebel, professor and head of the department of industrial engineering, will speak on "Basic Time Study Problems" on Oct. 31 in Chicago at the 20th anniversary Time and Motion Study Clinic sponsored by the Industrial Management Society.

★ ★ ★

Dr. Robert Nathans, assistant professor of physics now on leave to do research at Brookhaven National Laboratories, will present a technical paper at the Conference on Ferrites on Oct. 30 at London, England.

★ ★ ★

Dr. Brice Harris, professor and head of the department of English literature, is one of three temporary directors of a newly formed National Council of Teachers of English, a group expected to appeal to elementary, high school, and college teachers and administrators.

★ ★ ★

Eight members of the faculty and three graduate students participated in the annual convention of the Pennsylvania Speech Association last week. They included Joseph F. O'Brien, professor of public speaking and acting head of the department of speech; Holle G. DeBoer, assistant professor of public speaking; Dr. Harold E. Nelson, associate professor of speech; Dr. Elton S. Carter, associate professor of speech; Dr. Asa J. Berlin, assistant professor of speech education; Harriett D. Nesbitt, assistant professor of public speaking; Margaret C. Raabe, assistant professor of clinical speech and speech education; Dr. Bruce Siegenthaler, associate professor of clinical speech; and graduate students James Lewis, John Brillhart, and Agnes Doody.

★ ★ ★

A paper on "When the Pound Sterling Went West: British Investments and the American Mining Frontier" was presented by Clark C. Spence, instructor in history, at the recent annual meeting of the "Economic History Association" at Urbana, Ill.

Four Faculty Members At Historical Meeting

Dr. Warren W. Hassler, Jr., instructor in history, will deliver a paper on "George B. McClellan: A Revision," and Dr. Harold E. Dickson, professor of history of art and architecture, an illustrated paper on "The Pennsylvania Heritage in Painting," at the meetings of the Pennsylvania Historical Association, Oct. 26 and 27 at York, Pa.

Dr. Philip S. Klein, professor of American history, is president of the Association, and Dr. Robert K. Murray, associate professor of history, is secretary.



Director of the Press Committee is Louis H. Bell, right, discussing some phases of the press operations with committee member Richard C. Maloney.

Televised Classes Open to Faculty

Classrooms in which courses in psychology, sociology, music, education, political science, commerce, German, economics, accounting, and electrical engineering are being televised this semester are open to the general faculty for visitation.

Some 3300 students are enrolled in these television courses at present and plans call for televising of courses in chemistry and speech.

In general, the faculty would obtain most value by attending classes in receiving rooms, rather than lecture rooms, according to Leslie P. Greenhil, associate director of the Instructional Research Program.

Most lectures are being conducted in Room 20, Sparks Building, with the exception of courses in education, commerce and electrical engineering. Education and commerce courses originate in Room 10, Sparks, and E.E. 8 in Room 110, Electrical Engineering. The schedule below shows only the receiving rooms.

Psychology 2 — MF 8, W 1; Rooms 1, 2, 10, 11, 12, 18, and 19, Sparks.
Psychology 17 — MF 1, W 8; Rooms 1, 2, 11, 19, Sparks.
Sociology 1 — MF 9, W 2; Rooms 1, 2, 11, 12, 18, 19 Sparks.
Music 5 — MF 10, W 3; Rooms 2, 10, 11, 12, 19 Sparks.
Education 1 — MF 11, W 4; Rooms 1, 2, 11, 12, 19, 20 Sparks.
Political Science 3 — MF 2, W 9; Rooms 1, 2, 10, 11, 12, 18, 19 Sparks.
Commerce 30 — MF 3, W 10; Rooms 12, 19, 20 Sparks.
German 1 — M 4; Rooms 2, 11, 12, 18, 19 Sparks.
Economics 2 — TTh 9; Rooms 2, 10, 11, 12, 19, Sparks.
Accounting 1 — TThS 10; Rooms 1, 2, 10, 11, 12, 18, 19 Sparks.
Air Science 3 — TTh 1; Rooms 1, 2, 10, 11, 12, 13, 14, 18, 19 Sparks.
and TTh 2; Rooms 1, 2, 10, 11, 12, 13, 15, 16, 17, 18, 19 Sparks.
Elec. Eng. 8 — MF 9 and MF 11; Room 110 Elec. Eng.

Leading Architects To Visit

Leading architects and engineers will visit the campus during the coming year as critics of student work in architectural design or as special lecturers for students in architecture.

They include Julius E. Berla, R. Buckminster Fuller, Louis A. Kahn, Leon Chatelain, and Vincent Klin.

State Dietetics Research and Service Head Named

Clarice D. Gullickson, who has been in dietetics work with the Veterans Administration for nearly 20 years, will head a program of research and service in the dietary departments of various institutions of the Commonwealth.

Miss Gullickson will direct this program, beginning Feb. 1, as professor of hotel and institution administration at the Pennsylvania State University.

An agreement, under which the University will assist the Commonwealth in developing and conducting a continuing study and analysis of institutional food service in various State institutions, was completed last month.

Faculty Quotes

"I believe that we should attempt to establish an educational program which will insure that all our students get at least a nodding acquaintance with the important phases of science."

Dr. Eric A. Walker, at the Cooper Union Convocation, October 10.

Penn State Players Announce Schedule

The Penn State Players has announced its complete schedule for the 1956-57 season, with four plays listed for Center Stage arena treatment and three for Schwab Auditorium.

"My Three Angels" currently playing at Center Stage each Friday and Saturday evening will be followed there by "Heartbreak House," by Shaw, "Jim Dandy" by Saroyan, and a new original play arranged with the co-operation of the New Dramatists Committee of New York.

In Schwab Auditorium, productions scheduled include "Ruddigore" by Gilbert and Sullivan, Oct. 25-27; Robert Sherwood's "Idiot's Delight" on Mar. 7-9; and "Teahouse of the August Moon" by John Patrick, May 9-11.

Christ-Janer To Participate In Staten Island Exhibition

Dr. Albert Christ-Janer, director of the School of the Arts, has been invited to participate in an art exhibition commemorating the anniversary of Staten Island.

A group of artists will meet tomorrow to prepare contributions for an exhibition to be held Jan. 13 to Mar. 12 in the Staten Island Museum. The artists will be given free choice to do landscapes, marine subjects, or buildings in any form.

A jury of artists will select the artist to receive a \$1000 award. All pictures will be placed in the collection of the Staten Island Institute of Arts and Sciences.

Col. Bolduc Named to Post Of Chief of Campus Patrol

Col. Lucien E. Bolduc, former professor of military science and tactics, has been appointed to the newly created position of chief of campus patrol.

The new position was created, according to Walter H. Wiegand, director of physical plant, because of the rapid growth of the student body, faculty, and staff and of the physical plant. The growth, he adds, has required more traffic control, building security, fire protection and related patrol activities.

Col. Bolduc served for more than 36 years in the Army, retiring in August, 1955. He was commandant of the Army ROTC program of the University from 1951 until his retirement.

Capt. Philip A. Mark will continue as captain of the campus patrol.

Faculty Changes Announced

Dr. Floyd L. Carnahan, associate professor of chemical engineering, has been named assistant to the dean of the College of Chemistry and Physics.

In other action by the Board of Trustees at its meeting last week, Berry B. Lethridge, lecturer in economics, was appointed associate professor of economics and director of Business Administration extension. Changes in title were also approved for Clifford A. Nelson, from associate professor of economics to associate professor of accounting; and Frank Neusbaum, from professor of dramatics to professor of theatre arts.

Poet Eberhart To Open Liberal Arts Lectures

Richard Eberhart, poet in residence at Dartmouth College, will present the first of the year's Liberal Arts Lecture Series on Thursday, Oct. 25, at 8 p.m. in Room 121 Sparks. He will read from his poetry.

An exhibition of Mr. Eberhart's writings is currently on display in the show cases on the second floor of the Pattee Library.

Two other speakers have been announced for the series. Moses Hadas, Jay professor of Greek at Columbia University, will speak on Monday, Dec. 3, on "The Relevance of Relevant Books." His lecture is under the joint sponsorship of Hillel Forum and the Liberal Arts series.

Dr. Frederick R. Matson, professor of archaeology, will speak on Tuesday, Dec. 11, on "The Past Is the Present."

Leaves of Absence Granted to Five

Five members of the faculty were granted leaves of absence by the Board of Trustees at its meeting last week-end. They include.

Ralph G. Blaney, professor of agricultural extension and assistant director of Agr. and Home Ec extension, from Mar. 1 to June 30, to travel in Europe, observing agricultural practices and rural life.

Dr. Wayne A. Lee, professor of marketing, Dec. 1 to Nov. 30, to conduct a study of commercial marketing research operations in the country under an arrangement with the Marketing Research Corporation of America.

Paul S. Williams, professor of dairy production, from Mar. 1 to June 30, to visit agricultural experiment stations to study dairy production research in progress.

Arthur W. Einstein, associate professor of marketing and retailing, Feb. 1 to Jan. 31, to work on a book, conduct research in the development of an inventory control system for small business, and to travel and study abroad.

C. Ruth Kredell, extension home economist in York County, Sept. 16 to June 30, to enroll at the University of Wisconsin for graduate work.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, Oct. 26

Faculty meeting, College of Agriculture, 109 Armsby Hall, 4:10 p.m.
Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium, Dr. R. N. Clayton, assistant professor of geochemistry, on "Application of Oxygen Isotope Studies to Hydro-Thermal Alteration."
Players show "My Three Angels" at Extension Conference Center, 8 p.m., tickets \$1.
Players production of "Ruddigore" by Gilbert and Sullivan, Schwab Auditorium, 8 p.m., tickets \$1.
College of Home Economics Tea in honor of Dr. Jean D. Amberson. Living Center, 4:10 p.m.
Alumni Fund class chairmen convocation.

Saturday, Oct. 27

Players show "My Three Angels" at Extension Conference Center, 8 p.m., tickets \$1.
Players show "Ruddigore," Schwab Auditorium, 8 p.m., tickets \$1.
Freshmen football versus Bullis Academy, 10 a.m.
Varsity football, versus West Virginia, 1:30 p.m.
Cross country versus Michigan State, 12:30 p.m.
Exhibition of "The Continuous Miner," paintings, opens at Mineral Industries Art Gallery. Closes Nov. 25.

Sunday, Oct. 28

Chapel Service, Schwab Auditorium, 10:55 a.m. University Chaplain, Luther Harshbarger.
Rufus Jones Lecture, 8 p.m., Schwab Auditorium. Dr. Moses Bailey, professor of Old Testament, Hartford Theological Seminary, on "Our Faith and the Dead Sea Scrolls." Sponsored jointly by the University Christian Association and State College Friends Meeting.

Monday, Oct. 29

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Dr. Ruth C. Silva, associate professor of political science, on "Next Week's Election."
Community Concert, Eileen Farrell, soprano, Schwab Auditorium, 8:30 p.m.
Executive committee of Pennsylvania Junior Dairy Show meeting, 202 Dairy Building.

Christ-Janer Article In Encyclopedia

An article on drawing by Dr. Albert Christ-Janer, director of the School of the Arts will be included in the next printing of the Encyclopedia Britannica. This is the sixth article written by Dr. Christ-Janer for the encyclopedia. It will include a series of illustrations, with some of the greatest drawings of all ages. They were selected from the Metropolitan Museum, the Morgan Library, the Museum of Modern Art, and other collections.

Tuesday, Oct. 30

AAUP meeting, Mineral Sciences Auditorium, 7:30 p.m. Dr. Christ-Janer, director of the School of the Arts, with an illustrated talk on "America's New Painters."
Meteorology seminar, 4:10 p.m., 121 Mineral Industries. Raymond Deland, fellow, department of meteorology, on "Turbulence in the Boundary Layer."
Daily morning chapel services, 8:10 a.m., the Chapel.
Physics colloquium, 4:10 p.m., 117 Osmond. Dr. F. A. Schwartz, manager, special devices department, The Haloid Co., on "Xerography."

Wednesday, Oct. 31

Morning chapel service, 8:10 a.m.
Fall luncheon, Oldtimers Club, Autoport, 12:30 p.m.

Thursday, Nov. 1

Morning chapel service, 8:10 a.m.
Engineering mechanics seminar, 1:15 p.m., 203 Engineering A. G. M. Arkilic, assistant professor of engineering mechanics, on "Asymptotic Integration for Solution of Toroidal Shells."
University Senate, 4:10 p.m., Assembly Room, Hetzel Union Building.
Chapel vesper services, 4:30 p.m.
National meeting of Pi Tau Sigma, mechanical engineering honor society, Mineral Sciences Auditorium.
Mathematics Colloquium, 2:10 p.m., 312 Sparks Building. Dr. George Raney, assistant professor of mathematics, on "A Combinatorial Proof of the Lagrange Inversion Formula."

Eileen Farrell Opens Concert Series Monday

Eileen Farrell, soprano with the San Francisco Opera Association, will open the State College Concert series when she presents a program at 8:30 p.m. Monday, Oct. 29, in Schwab Auditorium. Doors to the Auditorium will open at 8 p.m.

Tickets for the concert by Miss Farrell, as well as the other four concerts on the 1956-57 series, were mailed this week to all members of the Association.

The other concerts are: Pittsburgh Symphony Orchestra, Nov. 20; William Primrose, viola soloist, Dec. 12; Moura Lympany, pianist, Jan. 10; and Westminster Choir, Feb. 20.

Dickson Talks On Painting

Dr. Harold E. Dickson, professor of art and architectural history, is presenting a paper today at the annual meeting of the Pennsylvania Historical Association in York. The paper is an illustrated talk on "The Pennsylvania Heritage in Painting."

\$55,000 Grants Made For Ionosphere Research

Grants totaling \$55,000 to carry on research projects in the ionosphere physics program of the International Geophysics Year have been received by the Ionosphere Research Laboratory.

The first grant, of \$35,000, will support a project involving treatment of ionosphere radio data obtained from stations in North and South America. Penn State and Cambridge University are the only two institutions working on this project. Dr. Irwin Schmerling, visiting assistant professor of engineering research, is in charge of the project here.

The other grant, of \$20,000, will be used in a project to determine the absorption of radio waves in the ionosphere at vertical incidence. Similar data will be gathered in a chain of observation stations from the Arctic to the Antarctic during the International Geophysics Year. Dr. Sidney Bowhill, assistant professor of electrical engineering, is in charge of this project.

The International Geophysical Year will be celebrated from July 1, 1957 to December 31, 1958, by 50 nations.

Two Art Exhibitions Open At HUB on Nov. 3

A group of water colors from the Guggenheim Museum of New York has been loaned to the University for exhibition. The paintings will hang in the Hetzel Union Building for three weeks, starting Saturday, Nov. 3.

Represented in the collection are such artists as William Baziotes, Marc Chagall, Lyonel Feininger, Ernst Ludwig Kirchner, Albert Gleizes, Adolph Gottlieb, Charles Howard, Vasily Kandinsky, Paul Klee, Fernand Leger, Franz Marc, Roberto Matta, Laszalo Moholy-Nagy, Joseph Stella, John Tunnard, and Jean Zceron.

A one-man show of water colors by Robert McKinney is also scheduled to begin Nov. 3. McKinney is a Penn State alumnus now teaching art at West Chester State Teachers College.

110 Willard Hall

Ruth I. Kapp

Oct. 26, 1956

PENN STATE COLLECTION

Two Senate Committees Make Annual Reports

Academic Standards

During the past year your Committee on Academic Standards held 17 meetings. A total of 296 cases involving petitions for reinstatement or exceptions to Senate regulations for undergraduate students were considered. The following table presents the distribution of cases and actions taken:

Type of Case	Total	Approved	Denied
Reinstatement	270	246	24
Exceptions to			
Residence Rule E-3	5	5	0
Exceptions to			
Residence Rule E-5	16	14	2
Exceptions to			
Residence Rule E-6	3	3	0
Miscellaneous	2	2	0
TOTAL	296	270	26

In reviewing the work of this year the Committee studied the academic performance of students: reinstated between June 6 and September 13, 1955. Of 108 students granted reinstatement before the opening of the fall semester 90 actually returned and completed that semester.

The following table presents a rather gratifying picture concerning the quality of work done by these students during their first semester following reinstatement:

Semester Average	No. in Group	Per Cent of Total
Less than 1.0	6	6.7
1.0 to 1.49	7	7.8
1.5 to 1.99	17	18.9
2.0 to 2.49	27	30.0
2.5 to 2.99	18	20.0
3.0 to 3.49	12	13.3
3.5 to 4.00	3	3.3
TOTAL	90	100.0

Of the 90 students in this group 60 or 66.6 per cent made averages over 2.0 (C). This percentage compares favorably with similar groups reported in 1954 and 1955 (63.2 and 55.5 per cent respectively).

The Committee recommended to the Senate that the By-Laws be amended to permit the addition of the Director of the Division of Intermediate Registration to its membership. Since this was approved the work of the Committee has been greatly aided by the presence of D.I.R. personnel, the availability of D.I.R. case histories, test results, etc.

A recent referral from the Senate regarding recommended changes in the "P" rules will be considered by the Committee over the summer months. Other Committees, interested groups or individuals having opinions and suggestions for the improvement of the rules governing drop-action will be invited to meet with the Committee.

Scholarships and Awards

I. Awards Recommended by the Committee.

The Committee interviewed and appraised eight applicants for the Fulbright Awards, and Professor Robert Galbraith submitted the findings to the Institute of International Education. Mr. Robert E. Newnam has been selected as an alternate for a Fulbright Award to study in England.

Two hundred and seven (207) applications for scholarships were reviewed by the Committee; ninety-three (93) candidates were interviewed, sixty-three (63) of whom have been recommended and approved by President Eisenhower and the University Senate, and have received awards. Seven applicants for the John W. White Fellowships were interviewed, two of whom were approved by President Eisenhower and the University Senate. Twelve nominations to the Honor Society Council as Evan Pugh Scholars, and a nomination for the John W. White Medal have similarly been approved by the President and the University Senate. The names of the recipients of all awards have been published as part of the minutes of the University Senate.

The Committee examined the official transcripts and approved all of the one hundred fifty (150) nominations made by the Committee on Recommendations for athletic grants-in-aid.

The chairman assisted in the appraisal of all the records of the candidates for the Hetzel Award, and served on the selection committee for the Henry H. Geist Memorial Scholarship (College of Chemistry and Physics).

II. Number of Awards Under the Jurisdiction of the Committee.

The following table shows a 95% increase over 1953 in the number of applications for scholarships to the Senate Committee on Scholarships and Awards for 1955-56 but only a 16.7% increase in the number of scholarships

available. During the same period the number of scholarships available to all of the various scholarship committees of the University has no doubt more than doubled. During the year 1955-56 six (6) new scholarships (Ethel and Bayard D. Kunkle Scholarships) were made available to the Senate Committee on Scholarships and Awards.

A comparison of the Number of Applications Received and Scholarships Granted by the S.C.S.A. and the University

	1953-54	1954-55	1955-56
*Number of applications received by S.C.S.A.	106	187	207
*Number of scholarships granted by S.C.S.A.	54	61	63
†Number of scholarships granted by the University	254	428	†
*S.C.S.A. figures exclusive of Fellowships and Medals			
†Exclusive of grants-in-aid			
‡Not available			

A large number of deserving applicants, many with scholastic averages above 3.0, were turned down by the Committee because of the lack of scholarship funds. The S.C.S.A. recommends that strong efforts be made to increase the number of scholarships available to this Committee.

III. The Administration of the Scholarship Program.

The Office of the Coordinator of Scholarships under Mr. W. E. Kenworthy, handled (1) all scholarship application blank distribution, and the acknowledgement of endorsements; and (2) all inquiries from prospective applicants or from students regarding what scholarships are available. Mrs. Darlene Wolfe handled efficiently the foregoing details, thus relieving the Committee of considerable clerical duties.

The helpfulness of Mrs. Royer, Secretary to the University Senate, has aided the chairman greatly in arranging interviews for the candidates, mimeographing the summary sketches of each applicant, and typing letters to the recipients of the awards.

Report from the Registrar

WITHDRAWALS (Campus)

- 1 Bartlebaugh, Kenneth Arnold, Aero, Oct. 10
- Gr Cassidy, Harold S., July 7
- 1 Check, Allan F., BA, Oct. 12
- 3 Cooper, Lawrence Clement, DIR, Sept. 29
- 1 Cunkelman, Allen Wade, Aero, Oct. 6
- 3 Duswalt, Richard William, PhEd, Oct. 6
- 1 Ferguson, Alfred F., ChE, Oct. 6
- 5 Flack, Richard Joseph, For, Oct. 11
- 1 Freidenburg, Leland Dow, A&L, Oct. 9
- 7 Glick, Donald H., A&L, Oct. 16
- 1 Holloway, Paul Jackson, BA, Sept. 28
- 1 Huffman, Harry James, AgE, Oct. 12
- 1 Knauff, Thomas Lynn, Aero, Oct. 9
- 1 McDaniel, Lewis E., IArt, Oct. 11
- 1 Moran, Nancy Jean, BA, Sept. 26
- 5 Moreland, Robert, ChE, Oct. 12
- 5 O'Donnell, Raymond Willard, Cer, Oct. 11
- 1 Robison, Max Edward, EE, Oct. 12
- 1 Slausenhaupt, Burt Lewis, Oct. 15
- 3 Summerlin, A. F. Francis, CE, Oct. 13
- 1 Thelin, David Haynes, EE, Oct. 6
- 1 Tressler, Ronald Wayne, Aero, Oct. 9
- 3 Williams, George Lamar, MngE, Oct. 9

WITHDRAWALS

(Undergraduate Centers)

Bachelor Degree Program

- 1 Boenning, Mary Josephine, 2yrSec, Sept. 18
- 1 Wigle, Mary Ann, 2yrSec, Sept. 19

Associate Degree Program

- 1 Dax, Eugene L., DDT, Sept. 18
- 1 Dinich, John, DDT, Sept. 19
- 1 Keiser, Francis Charles, DDT, Sept. 17

The following reasons were given for withdrawing: Personal 19, Illness 2, Scholastic 2, Financial 3 and Other 2.

Senate to Meet

The University Senate will meet at 4:10 p.m. on Thursday, November 1, in the Assembly Room of the Hetzel Union Building.

Scholarship Actions Taken in Engineering Fields

In three separate actions, thirteen students in the College of Engineering and Architecture received scholarships and a new scholarship was announced.

The Student Council of the College has established a \$140 a year scholarship to aid an outstanding sophomore student beginning with the current semester.

Eleven students in mechanical engineering, industrial engineering and metallurgy have been awarded Foundry Educational scholarships amounting to \$175 for the fall semester which are renewable.

Two other students, one a senior in industrial engineering, and the other a senior in mechanical engineering, received scholarships awarded for high scholastic standing and demonstrated interest in the foundry industry.

Honor Society Convention On Campus Nov. 1 and 2

The national convention of Pi Tau Sigma, national mechanical engineering honor society, will be held on campus Nov. 1 and 2, with delegates and guests from 61 chapters of the society expected to attend.

The program will include a banquet on Nov. 2 with Dr. E. A. Walker as the speaker.

Maurice A. Gjesdahl, professor of mechanical engineering, is completing his third year as national president of the Society. He points out that the program will also include inspection trips to the Warner Co. and the Titan Metal Co. in Bellefonte.

Class Hours Announced For Chemistry Television

To the schedule of television classes being conducted this semester announced in last week's Faculty Bulletin has been added the schedule for classes in general chemistry.

All classes are being held in Room 119 Osmond Lab. The schedule is as follows: Monday, 8, 9, 10 and 11 a.m.; Tuesday, 8, 9 and 10 a.m.; Wednesday, 1, 2, 3, and 4 p.m.; Thursday 8, 9 and 10 a.m.

The total of classroom hours of television instruction is now 62, according to Lester P. Greenhill, associate director of the Instructional Research Program.

Mueller Lectures In California

Dr. Erwin W. Mueller, professor of physics, presented four papers in California this week.

Two lectures on "Investigation of Surfaces by Field Emission" were given at Richmond, Calif., before the California Research Corp. At the University of California at Berkeley he addressed a physics colloquium on "Field Ion Microscopy." He also spoke on "Seeing Atoms" at the Ramo-Woolbridge Corp. in Los Angeles.

German Language Course Thought First In Nation To Be Televised



Television instruction is now in the language field with a course in elementary German being taught this semester by Dr. Philip Shelley. Two hundred students are taking the course in this manner.

THE strains of "Burschen heraus," an old German student song, usher in a new experiment in closed circuit educational television that is being carried on every Monday afternoon at 4 o'clock in Sparks Bldg.

For the first time since the educational television was launched at Penn State three years ago under a grant from the Ford Foundation, a foreign language is being taught through the medium of video. The course chosen for the experiment is introductory German for technical students. It is believed to be the first language course taught over closed circuit television anywhere in the country.

One hour of the three-hour course is being televised and the remaining two hours are being taught in the conventional manner, according to Dr. Philip Shelley, professor and head of the German department, who is teaching the televised portion.

The televised hour is devoted entirely to German grammar, he says. In the remaining two hours, under apprentice teachers, including graduate assistants, the students perform drills and exercises relating to the grammatical instruction and have reading drills.

The 200 students enrolled in this beginning German course for scientific majors have been divided into two groups. One-half are receiving televised instruction and the remainder are enrolled in regular sections. Dr. Shelley plans to use the non-televised students as a control group to measure the effectiveness of the televised instruction.

This semester there are five sections receiving televised instruction, plus the class in the originating room. Classes average about 15 students each. Four sections of about 20 students each are being taught without television.

Dr. Shelley, who is enthusiastic about the new project, feels that German grammar lends itself particularly well to televised instruction.

"One of our big challenges is to devise audio-visual aids to make the

fullest use of the new medium," he says. "Teaching by television requires ingenuity and imagination in developing techniques which will dramatize and animate the grammatical principles in the course."

He has already experimented with the use of placards and charts, illustrated various phases of German grammar, has made extensive use of the blackboard and is engaged in developing other audio-visual aids. During the ten-minute interval before the start of the televised class, he plays recordings of German University songs.

In addition to helping cope with increased enrollments and the shortage of trained teachers, Dr. Shelley feels that televised classes can benefit the technical German student in many ways.

First of all, he can be assured of receiving the basic grammar instruction from an experienced teacher and also can learn the proper pronunciation of German words, Dr. Shelley says. Secondly, as a result of the televised grammar classes, smaller sections can be organized for the other two hours, giving the student chance for more individual attention from his instructor.

Dr. Shelley is not concerned with the criticism that televised instruction destroys the personal relationship between the teacher and student. The students have personal contacts with teachers in the other two hours of the course, he points out, and they can observe the personal relationship in the originating room.

"Talk-back" microphones also can be used to stimulate questions and discussions, he adds, but they have not as yet been tried out.

Auction Sale Tomorrow

An auction sale of home appliances, house furnishings, motors, general machinery, office equipment and many other items will be held at the Salvage Warehouse tomorrow beginning at 10:00 a.m. (EDT).

Items of Interest

Dr. H. R. Albrecht, director of agricultural and home economics extension, recently met with a National Research Council committee seeking to develop a program of adult education in biological sciences. He is chairman of the committee.

★ ★ ★

Dr. Earl P. Strong, director of the Bureau of Business Research, recently addressed the student body of the Command and Staff School, Air Command and Staff College at Maxwell Air Force Base on "The Management Aspect of Command."

★ ★ ★

Wesley P. Winter, assistant professor of industrial engineering, has been named to serve another year as secretary of the American Foundrymen's Society committee on foundry education.

★ ★ ★

Nearly 375 freshmen and transfer students were exempted from the basic course in English composition on the basis of tests given the new students.

Players Production Now At Schwab, Center Stage

The Penn State Players production of the Gilbert and Sullivan operetta "Ruddigore" which opened last evening in Schwab Auditorium will continue tonight and tomorrow night.

"Ruddigore" is the first of three shows in Schwab Auditorium this season by Players. "Idiot's Delight," by Robert Sherwood, will be given March 7, 8 and 9 and John Patrick's "Teahouse of the August Moon" on May 9, 10, and 11.

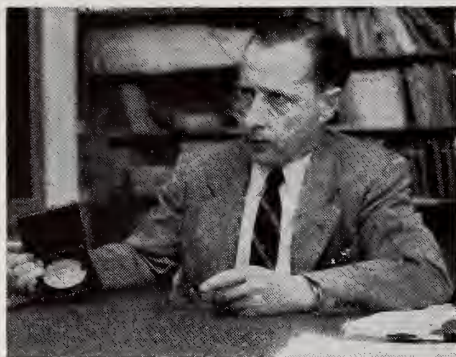
Players productions also include those of the arena theater at the Extension Conference Center. Currently running is the Sam and Bella Spewack play "My Three Angels" every Friday and Saturday evening until Nov. 17.

UCA To Conduct Membership Drive

The University Christian Association will conduct a membership drive among faculty and staff members Oct. 29 to Nov. 3.

Drive canvassers, explains Sam N. Gibson, executive director of the Association, will call on faculty members to interpret the Association's purpose, organization, and place in the religious life of the University. They will also inform faculty members of events and opportunities available to them and to solicit membership or contributions.

Gibson further points out that the UCA is dependent on the support of faculty, students, alumni and friends and its program can only be furthered by the active support of the faculty and staff.



Dr. Wislicenus and Medal

Manly Award Given To Water Tunnel Director

The Charles Matthews Manly Medal of the Society of Automotive Engineers has been awarded to Dr. George F. Wislicenus, director of the Garfield Thomas Water Tunnel and professor of aeronautical engineering.

The award was made in Los Angeles "for the best paper relating to the design or construction of or research on aeronautical power plants or their parts or accessories." The award was presented to Dr. Wislicenus by Kenneth Campbell, general manager of the research division, Curtiss-Wright Corp., at the meetings of the Society of Automotive Engineers in Los Angeles.

The paper, presented in New York a year ago at the Golden Anniversary meetings of the Society, reported on general principles of ducted-fan engine, also known as the by-pass engine. Dr. Wislicenus and his associates designed, built and tested such an engine while he was serving as assistant chief engineer for the Aircraft Engine Division of Packard Motor Co. The importance of the by-pass engine has become well-recognized today.

Strong Talks in Arizona

Dr. Earl P. Strong, professor of management and director of the Bureau of Business Research, spoke yesterday in Tucson, Arizona as a member of a panel group on the subject of "Operation Research."

The occasion was the annual meeting of the Associated University Bureaus of Business and Economic Research.

Grant By Ford Motor Co. Supports Fleet Training

A grant of \$7,500 for support of the program of the National Committee for Motor Fleet Supervisory Training has been given by the Ford Motor Company.

The Committee's office and staff are located in the Institute of Public Safety on campus and Amos E. Neyhart, administrative head of the Institute, is secretary of the Committee. The grant was offered through the Automotive Safety Foundation of the Automobile Manufacturers' Association.

The National Committee conducts driver training and safety education courses for motor fleet operators and supervisors throughout the country.

Clinical Psychology Program Expanded To Meet Demand

Aided by more than \$100,000 in outside subsidies, the University is expanding its clinical psychology training program to help meet the ever-growing national demand for trained workers in this field.

At present, grants totaling \$90,500 are providing 40 "traineeships" for the five-year graduate program in clinical psychology operated by the University. Additional subsidies, totaling \$58,000 have been earmarked to provide 21 more traineeships in the near future.

According to Dr. William U. Snyder, chairman of the clinical psychology section of the department of psychology and acting director of its Psychology Clinic, state and national governments are endeavoring to alleviate the severe shortage of trained personnel in the mental health field through financial aid to universities. The federal government currently subsidizes training programs in psychiatry, clinical psychology, public health nursing and psychiatric social work.

"Pennsylvania alone needs 82 additional trained clinical psychologists at present and the U.S. Veterans' Administration wants more than 500 in this field," Dr. Snyder points out.

Currently, the department of psychology is training 75 graduate students in its clinical psychology section.

The largest number of traineeships, 20, is provided by the U.S. Veterans' Administration from a subsidy of \$35,000. The Veterans' Administration has allotted the University an additional \$27,000 for eight more such appointments.

A \$42,000 grant just received from the U.S. Public Health Service is providing nine traineeships and a two-year post-doctoral career-teacher fellowship. It also is subsidizing the appointment of a full-time assistant professor of clinical psychology, a full-time psychiatric social worker, and a secretary.

Ten traineeships have been set up under a grant of \$12,500 from the Commonwealth of Pennsylvania, with the prospect of two additional traineeships under this program.

The Devereux schools for retarded and emotionally disturbed children already have contributed \$1,000 toward a traineeship and plan to establish more.

Traineeship stipends start at \$2000 and increase during the five-year span to about \$3,000. The training program includes, in addition to course work, from 18 to 24 months internship in a mental hospital or school for retarded or emotionally disturbed children.

At present, the trainees are assigned to four U.S. Veterans' Administration mental hospitals, four State mental hospitals, and two U.S. Public Health Service institutions, in addition to the Devereux schools.

Members of the ten-man staff of the clinical psychology section visit the in-

stitutions monthly to check on the work of the student internes.

The trainees also receive practical experience working in the University's Psychology Clinic which is in its twentieth year. Started under the direction of Dr. Robert G. Bernreuter, professor of psychology, the Clinic's main purpose was the training of clinical psychologists. However, it soon became the chief source of vocational guidance and personal adjustment counseling for the campus and the community.

Graduate students spend about one-third of their time in the clinic. About 30 per cent of the clinic's cases are in the child guidance field. Emotionally disturbed children and those with psychological and academic difficulties are referred to it by school systems within a 30 mile radius of the campus.

Non-university adults account for about 15 per cent of the clients, and students comprise the remainder. Some of the clinic's guidance and counseling functions have been taken over by the newly-formed Division of Counseling under Dr. Bernreuter's direction.

Quarles On Leave to Army Ballistic Agency

Dr. Gilford G. Quarles, director of the Ordnance Research Laboratory, has been granted a leave of absence to



Dr. Quarles

serve as scientific and technical advisor of the Commanding General of the Army Ballistic Missile Agency at Redstone Arsenal, Huntsville, Alabama.

The Agency was established last February to centralize work of the Defense Department's program in the development of the Redstone short-range missile and the 1500-mile international range missile designated JUPITER.

Dr. Quarles will serve as advisor to Maj. Gen. J. B. Medaris, commanding general of the agency. He will review continuously the entire program to anticipate problems and suggest methods of solving them; recommend changes in the scope, objectives and direction of the major projects; evaluate specific proposals and overall progress; and advise on technical status of the program.

The nucleus of the development group in the Agency consists of over one hundred scientists brought to the United States in 1945 from the German Peenemuende Project. The group is headed by Dr. Wernher von Braun, genius of the V-2 rocket.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday.

If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, Nov. 2

Province Workshop for Home Economics Clubs.

Regional conference of Association of College Unions.

National convention of Pi Tau Sigma, mechanical engineering honorary society.

Penn State Players production of "My Three Angels," 8 p.m., Extension Conference Center. Tickets \$1.

Saturday, Nov. 3

Varsity cross country, Manhattan, 1:30 p.m.
Penn State Players production of "My Three Angels," 8 p.m., Extension Conference Center. Tickets \$1.

Sunday, Nov. 4

Chapel Service, Schwab Auditorium, 10:55 a.m. Dr. Harold K. Schilling, dean of the graduate school.

State YMCA meeting.

Monday, Nov. 5

Faculty Luncheon Club, Dining Room "A," Hetzel Union Building, 12 noon. Maurice K. Goddard, secretary of Pennsylvania Forests and Waters.

Foreign language examinations, 7 p.m. German exam, Room 227-228, Sparks Building; French and Spanish exams, 317 Sparks.

Tuesday, Nov. 6

Meteorology Seminar, 4:10 p.m., 121 Mineral Industries. Dr. A. K. Blackadar, associate professor of meteorology, on "Diurnal Variation in Wind Structure."

Ninth Annual Conference on Industrial Education.

Arnold Air Society meeting.

Physics colloquium, 4:10 p.m., 117 Osmond Lab. Dr. Wolfgang Knauer, research assistant in physics from the Institute Tubingen, Germany, on "Progress in High Tension Electrostatic Machines."

Philosophy colloquium, 4 p.m., 236 Sparks. Dr. John M. Anderson, professor of philosophy, on "Data and Being."

Water Color Exhibition

Includes Famous Artists

An exhibition of water colors by famous modern artists from a collection of the Guggenheim Museum in New York will continue on display at the Hetzel Union Building until November 21.

The exhibition is part of a series planned by the School of the Arts for the year.

Included in the exhibition are works by Baziotes, Chagall, Feininger, Gleizes, Gottleib, Howard, Kandinsky, Kirchner, Klee, Leger, Marc, Matta, Moholy-Nagy, Stella, Tunnard, and Xceron.

Wednesday, Nov. 7

Biological Research Conference, 5:30 p.m., Dining Room "A," Hetzel Union Building. Dr. C. D. Jeffries, professor of soil technology, on "Development and Application of Mineral Analysis to Soil Studies."

Thursday, Nov. 8

Engineering mechanics seminar, 1:15 p.m., Room 203 Engineering "A." Mr. Ammon Foux, visiting assistant in engineering mechanics, on "Energy of Extensional Vibrations in Plates."

College of Home Economics Scholarship Awards Dinner, 6 p.m., State College Hotel.

Artificial breeding technicians short course begins.

Weekly chapel vesper services, 4:30 p.m.

Friday, Nov. 9

Mineral Industries colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. Leonard F. Herzog, assistant professor of geophysics, on "Dating Igneous and Sedimentary Rocks by Stable Isotope Dilution Rb-Sr Analysis Using Solid Source Mass Spectrometry."

Players production of "My Three Angels," 8 p.m., Extension Conference Center. Tickets \$1.

Grant Made To Study New Engineering Methods

A two-year grant of \$15,600 from the National Science Foundation has been received to carry on studies in the development of distillation calculation methods. The project is directed by Arthur Rose, professor of chemical engineering.

The calculations are used by chemical engineers to determine the best way to build and operate distillation equipment for purification or separation operations, such as separation of alcohol from water, gasoline from petroleum, or oxygen from air.

The purpose of the new study is to make use of calculation methods employing digital computers. Because of the length of time involved, short-cut methods have been used to make these calculations perviously, although the methods were neither as complete or accurate as engineers desired. With computers, more complex calculation methods may now be used.

Observatories Open Tonight

Weather permitting, the University observatories will be open from 8 to 10 p.m. tonight for observations of Mars and other stellar objects. Members of Alpha Nu, astronomical society, will operate the telescopes.

Needs, Accomplishments Cited by Dr. E. A. Walker

Some familiarity with science and with the arts is a requisite of all cultured men, Dr. Eric A. Walker, president of the University, told a meeting of 200 class chairmen for the 1957 Alumni Fund last week.

"An engineer cannot be cultured without at least a nodding acquaintance with the arts," Dr. Walker pointed out, "nor can the liberal artist claim to be liberally educated unless he has a nodding acquaintance with the sciences."

Dr. Walker, in citing the strengths and weaknesses of the University at the present time, mentioned too many courses and curriculums as a current problem. He also pointed out the need to increase faculty salaries to prevent good faculty members from leaving the University.

On the credit side of the ledger, Dr. Walker said the improvement of student counseling is progressing. He also praised the program in agricultural research as one of the finest in the country.

"Research in the liberal arts and social sciences is an area which I have resolved to do something to help," he added.

Pointing to the record enrollment of 16,000 students, Dr. Walker said we would have to expand our work in the centers if we are to increase our enrollment. Concerned about the limited enrollment of women students, he said "when you educate a woman, you educate an entire family."

Chomicky Article In School Arts Magazine

An article titled "Personalized Design in Rugs," by Yar G. Chomicky, assistant professor of art education, appears in the October issue of School Arts magazine.

The article, illustrated with pictures of rugs done by students, is concerned with the work of these students in art education classes.

110 Willard Hall

Ruth I. Kapp.

Nov. 2, 1956

Vol. 44, No. 8

PENN STATE COLLECTION



Patent matters are discussed by M.E. Frederick, standing, and E. T. Ellis, Jr. Frederick, asst. prof. of engineering research at the Ordnance Lab will do patent work for the entire faculty. Ellis is the patent draftsman at the Ordnance Lab.

Many Patents Should Result From University's Research

IN a research program of the magnitude of the University's, there should be one or two patentable inventions each year, believes Melvin E. Frederick, who was recently appointed to assist faculty and staff members in patent matters.

Frederick, who has been doing similar work at the Ordnance Research Lab since 1953, feels that either through lack of understanding of what makes a good patent or through failure to think in terms of patents, faculty members are passing up many opportunities.

"It may also be true," Frederick adds, "that some faculty members believe that there is too much trouble in obtaining a patent."

All patent applications of University-sponsored research are processed by the Research Corporation of New York, a non-profit organization which has been carrying on such activities since 1912. Inventions resulting from Government-sponsored research are patented by the Government.

"In either case," Frederick points out, "the faculty member bears neither the cost nor the responsibilities of the legal procedures. His greatest responsibility is in supplying information on which a patent disclosure may be made."

Patents, Frederick explains, may be issued on physical "machines" (using the term broadly) or on methods, but not on ideas alone. Nevertheless it is important that very early in the development of an invention consideration be given to making a patent application.

"If, ultimately, a patent application

is filed and some other inventor also files on the same invention, the dates of conception of the invention become important. Without proof of such date of conception, the inventor finds it extremely difficult to present a good claim."

Such proof often takes the form of apparently inconsequential items as sales slips and requisitions showing purchases of materials or equipment necessary to the invention, early drawings, and the first description and witness to it.

In many cases, Frederick points out, a faculty member who has developed an invention or a new method publishes an article in a technical journal before giving consideration to the possible patentability of it. If he does not apply for a patent within a year of the date of publication of the article, then others who can show prior development may make an application for the same invention. In such a case the real inventor may have no real claim on the patent.

Why make application for a patent?

From the University's standpoint, the return from marketable patents which result in income is fairly obvious. The individual, who receives ten per cent of the gross royalties from an invention, also gains considerable prestige from a patent.

From the standpoint of the control of the licensing of the patent, a new invention or method may well be patented by some other organization which could limit its development to the detriment of the industry generally.

"Let us take a purely hypothetical case," Frederick explains. "If someone on our faculty developed a new alloy with properties unlike those of any other alloy and announced to the world that this alloy existed, then conceivably some organization could apply for a patent on the alloy unless the University had already done so.

"Such an organization could then produce that alloy for its own gain or 'sit on' it for 17 years and prevent another organization from producing it. Much of the potential good that might have resulted from the use of that alloy would be lost."

To help in making patent disclosures, Frederick is available to all faculty members from the earliest stages. He himself does not prepare the patent application — this is done by the Research Corporation — but he is so familiar with procedures that he can be of considerable assistance. He has prepared an explanation of invention disclosure which will help the inventor accumulate all information which will help the Research Corporation in evaluation of the proposed patent.

"The inventor in many cases is quite familiar with the apparent market for his product," Frederick points out. "He probably will also know something of the 'prior art' and of the literature concerning it.

"The Research Corporation will not apply for patents if it believes that there is no reasonable market for the invention. A minimum cost for even a simple invention would be \$300 to \$500 and it is obvious that the Corporation will not spend this money and exert its efforts if there is no foreseeable market.

"Patents are not issued if other inventions have already been patented to accomplish the same result in essentially the same way, even though the invention was designed for a different field. Therefore some idea of the prior art or practice must be known."

One of the desirable aspects of the University's connection with the Research Corporation is that in the event of legal difficulties the University and the inventor will have adequate help in the processing of the patent and after the patent has been issued. Infringement cases, unlikely as they may seem, do result, and they can be both costly and time consuming.

Frederick, who was an engineering graduate of Purdue University, also obtained a degree in law from Valparaiso University and has been admitted to the bar in Illinois and Indiana. In the three years he has been at the Ordnance Lab, ten patent applications have been applied for or are in the process. Admitting that the work of the Lab lends itself to inventions, he feels that the work of the research in many other areas on campus also suggests patent possibilities. In other words, the faculty might well afford to become "patent conscious."

He asks only that, if his services are needed, he be informed of the potential invention early enough in the process.

Bone Density Studies Aided By Public Health Grant

The accurate measuring of bone density soon may become a valuable tool to the medical profession in diagnosing various human skeletal ailments.

Dr. Harald Schraer, research associate in physics, is heading a research program that is designed to establish the scientific validity and accuracy of a unique bone density computer.

The machine was devised by the late Dr. Walter N. Brown, Jr., who was a research associate in applied physics. Dr. Pauline Beery Mack, former director of the Ellen H. Richards Institute, initiated the bone density work.

To continue the work during the coming year, Dr. Schraer has received a \$7,958 grant from the Public Health Service.

"Once its accuracy is established, the machine probably will be the best means of determining mineral content of bones in living subjects," Dr. Schraer predicts. "So far there has been no way of measuring the exact loss of calcium the body suffers except by metabolic balance tests, a tedious and expensive method that is impractical for general use."

Accurate bone density measurements will be particularly valuable in assessing bone mineral content of the aged who are prone to bone disorders and in diagnosing such diseases as post-menopausal osteoporosis, an endocrine disease involving the bones; certain parathyroid gland disorders; senile osteoporosis, and many nutritional disorders. Such measurements also should be useful in helping detect bone difficulties caused by pregnancy.

Small laboratory animals, including rats and rabbits, will be used by Dr. Schraer in his effort to establish the accuracy of the bone density computer. Through special diets varying in calcium content, changes will be caused in the mineral content of the animals' bones.

The animals will be X-rayed by the special technique used in bone density measurement work and the films analyzed by the bone density computer. The results will be checked by chemical and physical analysis of the animals' bones.

The bone density computer is a machine which extracts information from an X-ray film. This information can be translated into terms of bone mineral content. The X-rays are taken according to a prescribed procedure which includes placing an aluminum alloy wedge, which serves as a standard, next to the bone being X-rayed.

Any number of factors can affect the film itself. Different X-ray machines blacken film in varying degrees and film development cannot be precisely controlled.

Although the wedge image appearing on the film is subject to film changes, the wedge itself remains a constant standard against which film variables

can be checked in the bone density computer.

When an X-ray film is taken, the bone absorbs X-rays causing the film to become lighter where the absorption occurs. The more transparent the film, the denser the bone.

The computer finds the average density of a cross-sectional slice of the bone by comparing the bone image with the wedge image. This technique, at present, can handle only extremity bones.

Dr. Schraer's research is a continuation of work he and his wife, Dr. Rosemary Schraer, started two years ago at the Albert Einstein Medical Center in Philadelphia. He came to Penn State last February.

Dr. Schraer and Dr. James M. Lawther, a part-time research associate at Penn State, have a one year \$5,624 Public Health Service grant to work on the development of a new bone density evaluation technique based on the planigraphic principle.

The planigraphic technique is a means of selecting in a subject a layer of tissue or a structure which will be seen more clearly on the X-ray film than the tissue above or below the selected layer, Dr. Schraer explains.

Dr. Schraer also has a two-year \$13,900 contract from the Army Quartermaster Corps to develop a technique for getting the bone density of femur (leg) and humerus (upper arm) bones. This contract is in its second year. Edward Mayer, a research assistant in physics, is working with Dr. Schraer in this study.

Dr. Schraer has co-operated with the Home for the Jewish Aged and the Albert Einstein Medical Center in studies of bone disorders in the aged and in studies of the remineralization of broken bones.

Penna. Industries Aided By Automation Service

A special consultation, research, and development service in the College of Engineering has been developed to aid small industries of the State with problems in automation, Dr. Merritt A. Williamson, dean of the College, has announced.

The service, organized in the department of industrial engineering, will provide information relating to the tools and techniques used in automating industrial processes.

The faculties of both the electrical and industrial engineering departments will contribute to the new service. Chester Linsky, assistant professor of industrial engineering, will head the automation laboratory, which will show how mechanical, hydraulic, pneumatic, electrical and electronic devices may be used for low-cost automation.

Items of Interest

Dr. Frederick R. Matson, professor of archaeology, will talk on "Radioactive Carbon Dating" at the Analytical Chemistry Seminar on Thursday, Nov. 15, at 1:10 p.m. in Room 119, Osmond Laboratory.

★ ★ ★

Dr. C. D. Jeffries, professor of soil technology, will address the Biological Research Conference meeting on Wednesday, Nov. 7, at 5:30 p.m. in dining room "A" of the Hetzel Union Building. He will talk on "Development and Application of Mineral Analysis to Soil Studies." Graduate students and faculty members in the biological sciences are invited.

★ ★ ★

Dr. Boris J. Kochanowsky, assistant professor of mining engineering, presented three papers at two German universities last summer.

At the School of Mines of Clausthal University he lectured on "Blasting and Rock Fragmentation" and on "American Mining Industry." The paper "New Theories in Blasting" was presented at the Technical University at Aachen.

Make Applications For Danforth Fellowships

Applications are now being received for Danforth Foundation fellowships in the areas of natural and biological sciences, social sciences, humanities and all fields of specialization in the undergraduate colleges.

Seniors and recent graduates preparing themselves for careers in teaching are eligible for the fellowships, which are intended for use in 1957 during the first year of graduate study.

Dr. Henry S. Brunner, head of the agricultural education department, has been named liaison officer and will nominate two or three candidates for the fellowships.

Hyslop Art Selections In Library Exhibition

An exhibition of original prints, drawings and paintings from the collection of Francis E. Hyslop, Jr., associate professor of the history of art and architecture, is now on display in the foyer of the Library and will continue there until Nov. 20.

The exhibition includes Pablo Picasso's etching, "The Frugal Repost." The 16th-century artist Albrecht Altdorfer, is represented with a woodcut, "Lamentation."

Other artists represented include William Hogarth, Toulouse-Lautrec, Honore Daumier, Mary Cassatt, Henri Matisse, and August Renoir. Of local interest are drawings by Stuart H. Frost, instructor in art, and Sybil D. Emerson, professor of art education.

Albrecht in New Zealand For Grassland Congress

Dr. Herbert R. Albrecht, director of agricultural and home economics extension, will be an official delegate of the United States to the seventh International Grassland Congress, meeting Nov. 6-14 in New Zealand.

One of three authorities in the grassland field who were granted fellowships to the meetings by the sixth Congress held on campus in 1952, Dr. Albrecht served as deputy secretary general of that session.

At the conclusion of the meetings, Dr. Albrecht will tour New Zealand to observe its grassland programs.

Dr. W. M. Myers, formerly a member of the staff of the USDA Regional Pasture Research Laboratory on campus, and now chairman of the agronomy department at the University of Minnesota, is also a delegate to the Congress.

Christ-Janer To Lecture, Exhibit Paintings

Dr. Albert Christ-Janer, director of the School of the Arts, will exhibit water colors, jointly with the well-known American artist Adolf Dehn, in St. Paul, Minn., for three weeks, opening on November 14.

On Nov. 15, Dr. Christ-Janer will lecture before the Council of Arts and Sciences in St. Paul on "Pictures in Your Life." His lecture is one of a series of five on the arts the council is sponsoring this year.

Holiday Schedule Announced

Veterans Day, Monday, November 12, is one of the several holidays announced by Ossian R. MacKenzie, special assistant to the president, for the months of November, December, and January.

Classes will be held on Veterans Day and the essential services necessary to the academic program, as well as provisions for general maintenance, food service and housing facilities for students will be maintained. All other offices will be closed.

The schedule also lists Thursday, November 22, Thanksgiving, as a holiday. Offices will also be closed for Christmas from Saturday, Dec. 22 at noon to 8 a.m., Thursday, December 27 and also all day December 29.

New Years Day, Tuesday, Jan. 1 has also been declared a holiday.

Films Selected for Preview

The Audio-Visual Aids Library has requested the following films for preview. Faculty members desiring to be notified when prints arrive should call Extension 2051.

"Putting Animals in Groups"
"Walk along the Brook"
"French Explorations in the New World"
"English and Dutch Colonization in the New World"
"Let's Measure: Quarts, Pints and Gallons"
"Introducing the United States"
"Introducing Greece"
"Introducing Italy"
"Vamos a Guatemala"
"The Ganges River"
"How to Take a Test"
"The Use of the Microscope"
"Education in Turkey"
"Outward Bound"
"Shango" (Ritual West Indies Dance)

Mining Paintings Exhibited In Mineral Industries

Eight paintings depicting the impressions of famous artists on the operation of the Joy Continuous Miner are now in exhibit in the Mineral Industries Art Gallery. The exhibit will continue until November 25.

The paintings were commissioned by Fortune magazine and the collection was donated to the Carnegie Institute by the Joy Manufacturing Co. The artists represented include Antonio Frasconi, Walter Murch, Matta, Ben Shahn, Saul Steinberg, Hedda Sterne, and Rufino Tamayo.

The paintings have been exhibited at the Carnegie Institute, L'Exposition Internationale de l'Industrie Minerale in Paris, Arts Club of Chicago, California Palace of the Legion of Honor in San Francisco and other galleries.

Unique Television Method Used in Metallurgy Classes

A unique use of the television camera in the classroom is reported by Dr. Robert Lindsay, professor of metallurgy.

Dr. Lindsay's technique permits large numbers of students to view microscopic specimens at one time, rather than individually through the microscope.

The image received by the television camera attached to a microscope is passed through an amplifier to the conventional receiver.

Dr. Lindsay points out that the new technique is a time-saver. The method is being used in the metallurgy section of the Atomic Energy Commission program in nuclear engineering, and also in ferrous metallography classes.

Report from the Registrar

WITHDRAWALS (Campus)

Sp Bennett, Carolyn G., Oct. 22
Gr Cole, Robert Lewis, Oct. 11
Gr DeFluri, Frank Leonard, Oct. 12
3 DeVilbiss, Frank, For, Oct. 12
1 Ebner, John R., AgEd, Oct. 19
3 Elwell, Nelson LeRoy, Jour, Oct. 17
5 Feola, John Michael, CE, Oct. 22
7 Friedberg, Matthew Ira, BA, Sept. 22
1 Godfrey, Richard Earl, A&L, Oct. 22
1 Hoff, Charles Jay, EE, Oct. 13
9 Porterfield, Dean C., G&M, Oct. 15
5 Prospero, John Michael, Arch, Oct. 20
3 Rudion, Henry Louis, ChE, Oct. 19
1 Sturnick, Michael A., CE, Oct. 23
3 Vought, Catherine Wall, DIR, Oct. 17
1 Wenzler, Andrew J., EE, Oct. 15
1 Worrell, Ralph Chadwick, Journ, Oct. 12
2 Wunder, Charles, HA, Sept. 29

WITHDRAWALS

(Undergraduate Centers)

Associate Degree Program

1 Armitage, Donald Howard, DDT, Oct. 11
1 Bressler, John C., DDT, Oct. 16
1 Cairns, Charles Wilson, ET, Oct. 10
1 Cnjura, Joseph George, DDT, Oct. 5
1 Eckley, Henry Joseph, DDT, Sept. 28
1 Emerson, Donald Eldon, DDT, Oct. 9
1 Hughes, Charles John, ET, Oct. 3
1 Kovalevich, Lucille Joan, DDT, Sept. 17
1 McGuire, James Edward, ET, Oct. 9
1 Mann, Stanley John, DDT, Oct. 5
1 Perkins, Richard L., DDT, Oct. 8
1 Raley, Edward Zane, DDT, Sept. 21
1 Schriff, Darryl G., DDT, Oct. 9
1 Tessler, Jerome S., ET, Sept. 25

The following reasons were given for withdrawing: Personal 21, Financial 5, Illness 2, Scholastic 3 and Employment 1.

Dr. Newell To Talk

Dr. Homer E. Newell, Jr., director of the Naval Research Laboratory, will talk on "The International Geophysical Year" on the Graduate School Lecture Series Nov. 13, Tuesday, at 8 p.m. in Schwab Auditorium.

Foreign Language Exams Scheduled

The regular Foreign Language Examination will be held on Nov. 5, Monday, at 7 p.m. The German exam will be held in 227-228 Sparks and the French and Spanish exams in 317 Sparks.

Film on Israel Scheduled

Students, faculty and townspeople are invited to see a prize-winning film on Israel, titled "Faces of Israel" on Sunday, November 4, at 7:30 p.m., at the Hillel auditorium. It is a 60-minute color film telling the story of the common people of Israel through episodes in the daily lives of seven characters.

Thaden Reports Recanting Of Russian Historians

Russian historians are now criticizing their own practices of the period between 1947 and 1953 when bourgeois historians and scholars were denounced for falsification of history and reactionary defense of imperialism.

So says Dr. Edward C. Thaden, assistant professor of history, who spent six weeks in the Soviet Union this summer, on grants from the Inter-University Committee on Travel and the University's Council on Research.

Dr. Thaden also reports that there is a new trend in Soviet historical scholarship to encourage further strengthening of scholarly ties with historians of other countries.

"The university professors in Russia constitute a privileged group," says Dr. Thaden. "They are paid from five to ten times as much as the average worker, receive rewards for articles and books published and have considerable social prestige."

Dr. Thaden, who joined the faculty in 1952, specializes in 19th century Russian history.

Lowenfeld Books Rated High In Art Education Survey

"Creative and Mental Growth," a book published in 1952 by Viktor Lowenfeld, professor and head of the department of art education, has been rated one of the two top books in the art education field.

The rating was done in a survey conducted by the School Arts magazine. A total of 141 art educators made a list of 100 of the top books, choosing the books from 800 books suggested. A total of 125 of the 141 participating in the survey selected the book by Lowenfeld. "Your Child and His Art," also by Lowenfeld, was fourth in the selections, receiving 107 mentions, while "The Nature of Creative Activity," also by Lowenfeld, received 77 mentions.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday.

If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, Nov. 9

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. Leonard F. Herzog, assistant professor of geophysics, on "Dating Igneous and Sedimentary Rocks by Stable Isotope Dilution Rb-Sr Analysis Using Solid-Source Mass Spectrometry."

Players production of "My Three Angels," 8 p.m., Center Stage, Extension Conference Center. Tickets \$1.

Meeting of School Camping and Outdoor Education Committee of Pennsylvania School Study Council.

Orientation meeting, clerical and service employees, 409 Old Main. Service employees 9 a.m.; clerical 10:30 a.m.

Saturday, Nov. 10

Varsity soccer, versus Army, 10:00 a.m.

Varsity football, versus Boston U., 1:30 p.m.

Band Day program.

Players production of "My Three Angels."

8 Appointments Approved

Appointments of eight faculty members have been approved by the Board of Trustees. They include:

Dr. W. Paul Campbell, director of music at the Hershey Public Schools and Hershey Junior College, as associate professor of music education.

Dr. Bunji Maruo, associate professor at the Institute of Applied Microbiology at the University of Tokyo, as associate professor of agricultural and biological chemistry.

Richard C. Newton, U. S. Department of Agriculture at Bozeman, Montana, as associate professor of entomology at the U. S. Pasture Research Lab.

Sachindranarayan Bhaduri, research assistant at the University of Iowa, as research associate in engineering research.

Robert R. Ernst, as research associate in engineering research.

Philip C. Bower, as district representative in General Extension, at the DuBois Center.

Dr. Harry S. Everett, professor of mathematics at the University of Chicago, as visiting professor of mathematics.

Dr. Hilde Grebe, visiting research associate of geology, formerly of Amt für Bodenforschung, Germany.

Sunday, Nov. 11

Chapel Service, Schwab Auditorium, 10:55 a.m. Dr. Howard Thurman, dean, Marsh Chapel, Boston University.

Special Veterans Day service, Helen Eakin Eisenhower Chapel, 4 p.m., sponsored by the Committee on Inter-Religious Affairs. Mr. Neal Riemer, main speaker.

90-minute film, produced by Ed Morrow, titled "Egypt and Israel," Mineral Sciences Auditorium, 7:45 p.m.

Monday, Nov. 12

Faculty Luncheon Club, 12 noon, dining room "A." Hetzel Union Building. Chaplain Luther Harshbarger on "Religion at Penn State."

UCA School of Religion, program center of the Chapel, 7:30 to 9 p.m. Courses taught by Chaplain Luther Harshbarger, the Rev. Preston N. Williams, assistant to the chaplain, and the Rev. Robert B. Starbuck, associate director of UCA. Courses open to all faculty, students and townspeople.

Tuesday, Nov. 13

Graduate School Lecture Series, Dr. Homer E. Newell, Jr., Naval Research Laboratory, on "The International Geophysical Year," 8 p.m., 121 Sparks Building.

Wednesday, Nov. 14

Meeting, Penn State chapter of AIME, 7:30 p.m., Mineral Sciences Auditorium: Lewis E. Hoffman, minerals staff officer of U. S. Bureau of Land Management, on "Federal Mineral Lands and Our Present Minerals Program."

Meeting of Senate Committee on Courses of Study, 9 a.m., Room 229 Sparks Building.

Thursday, Nov. 15

Mathematics colloquium, 2:10 p.m., 312 Sparks. Dr. Harry Gonsior, assistant professor of mathematics, on "The Theory of Combinatorial Homotopy."

Concert by U. S. Marine Corps Band, Recreation Building, 3:30 and 8 p.m., sponsored by Sigma Chi fraternity to benefit the U. S. Olympic Fund. Tickets, general admission \$1, reserved seats (evening only) \$1.50, at HUB.

Analytical Chemistry seminar, 1:10 p.m., Room 119 Osmond Lab. Dr. F. R. Matson, professor of archaeology, on "Radioactive Carbon Dating."

Friday, Nov. 16

Mineral Industries colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. Martin Barad, head, small scales section, Atmospheric Analysis Laboratory, National Bureau of Standards, on "Canons of Experimental Design."

Sigma Xi Lecture, 8 p.m., 119 Osmond Lab. Dr. B. F. Skinner, professor psychology, Harvard University, on "The Experimental Analysis of Behavior."

Dr. Gensamer To Address Metallurgy Society Meeting

"The Astounding Ignorance of Engineers" is the topic to be discussed by Dr. Max Gensamer, head of the department of metallurgy, Columbia University, at the meeting of the local chapter of the American Society of Metallurgy, on November 13, at 7:30 p.m. in the Mineral Sciences Auditorium.

21 Will Attend Meetings Of Land Grant Colleges

President Eric A. Walker and 20 staff and faculty members will attend the annual meetings of the American Association of Land Grant Colleges and State Universities, in Washington, D. C. The meetings start Monday, Nov. 12 and continue through Nov. 15.

Others to attend the meetings include Larry Dennis, provost; Dr. Lyman E. Jackson, dean of the College of Agriculture; Dr. Michael A. Farrell, associate dean and director of the Agricultural Experiment Station; Lydia Tarrant, professor of home economics extension; Dr. Alfred Bortree, professor and head of the department of veterinary science; Dr. David R. McClay, acting associate dean for resident instruction in the College of Agriculture; Thomas H. Patton, assistant director of agricultural and home economics extension.

Edward L. Keller, director of General Extension; Stanley H. Campbell, assistant to the director of General Extension; Dr. Merritt A. Williamson, dean of the College of Engineering and Architecture; Kenneth L. Holderman, assistant dean and director of engineering extension; Elmer R. Queer, director and professor of engineering research; Robert G. Cochran, research associate in the research reactor project.

Dr. Ben Euwema, dean of the College of the Liberal Arts; Richard C. Maloney, assistant dean of the College of the Liberal Arts and director of Foreign Student Affairs; Dr. Grace M. Henderson, dean of the College of Home Economics; Dr. Dorothy Houghton and Delpha Wiesendanger, both assistant deans of the College of Home Economics; and Dr. Harold K. Schilling, dean, and Dr. Henry W. Knerr, assistant dean of the Graduate School.

Senate Committee Meets

The Senate Courses of Study Committee will meet Wednesday, Nov. 14, at 9 a.m. in Room 229, Sparks Building.

Senate Minutes

The University Senate met at 4:10 p.m. on Thursday, November 1, 1956 in the Assembly Room of the Hetzel Union Building with President Eric A. Walker presiding.

The minutes of the October 4 meeting were approved as printed in the Faculty Bulletin for October 19, 1956.

President Walker called on the deans of the various Colleges and the Graduate School to introduce their new senators. E. L. Keller introduced two guests, Coleman Herpel, Head of the Ogontz Center, and G. R. Noble of the Center at Scranton.

One hundred thirty-six senators signed the roll.

COMMUNICATIONS FROM UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: E. R. Queer (W. E. Ranz), W. H. Walters (C. D. Iseman), E. B. van Ormer (Leon Gorlow), H. W. Popp (L. R. Kneebone), R. E. Larson (D. G. White), H. S. Brunner (W. F. Hall), A. H. Reede (R. S. Stout), Hummel Fishburn (G. E. Ceiga), F. G. Brickwedde (F. L. Carnahan), F. W. Peikert (J. E. Nicholas), A. T. Thompson (R. F. Marboe), H. D. Wright (T. F. Bates), D. G. Thevaos (W. S. Ray), E. B. McCoy (G. N. Thiel), Joseph Marin (J. W. Breneman), B. F. Howell (R. N. Clayton), Margaret Batjer (J. H. Britton), W. M. Smith, Jr. (Helen E. Buchanan), Christine Salmon (Lucile Hutton), and D. V. Josephson (P. S. Williams).

A letter from Ben Euwema, Dean of the College of the Liberal Arts, stated that F. R. Matson had been elected to serve as a senator until July 1957 in place of Kent Forster (now on leave).

A letter from G. G. Quarles stated that A. T. Thompson would replace him as a member of the Senate during his leave of absence.

REPORTS OF STANDING COMMITTEES

A. W. Hutchison acting for P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda in two parts as Appendix "A" and Appendix "B," and moved its adoption. The motion was seconded. K. L. Holderman moved that Section II of the report be amended by deleting the old course changes in the College of Engineering and Architecture. The motion to amend the report was seconded and passed. The motion to adopt the report as amended was passed. The report is on file in the office of the secretary.

REPORTS OF SPECIAL COMMITTEES

L. S. Roudiez, Chairman of the Ad Hoc Committee on the ANNUAL SUMMARY OF ACADEMIC SERVICE AND GROWTH, presented a report for the committee which contained the following recommendations:

1. This committee recommends that the University Senate take no action in connection with the report known as "Annual Summary of Academic Service and Growth."
2. This committee recommends that the action of the Senate on January 7, 1954, abolishing the form known as "Annual Summary of Academic Service and Growth" should not be construed as preventing any department head or dean from using a similar or identical form, or any other means agreeable to them and to their faculties, for the collection of necessary information.

Mr. Roudiez moved the adoption of the recommendations. The motion was seconded and passed. The complete report is on file in the office of the secretary.

A motion to discharge the committee was seconded and passed.

UNFINISHED BUSINESS

The secretary read a progress report from the SENATE COMMITTEE ON ACADEMIC STANDARDS, with reference to the scholastic action rules. The letter is on file in the office of the secretary.

R. G. Bernreuter, Chairman of the SENATE COMMITTEE ON COMMITTEES, moved that the report of the committee be removed from the table. The motion was seconded and passed. He moved the adoption of the amendment to Article I, Section 1 of the Constitu-

tion. The motion was seconded. The amendment is as follows:

Amend Article I, Section 1, to add, and four members-at-large appointed by the Senate upon nomination by the Committee on Committees, for a period of two years, two (2) being elected each year.

In the discussion, H. K. Schilling for the Committee on Educational Policy presented an amendment to the amendment as follows.

Amend Article I, Section 1 of the Constitution, to add, "and four members-at-large elected by the Senate upon nomination by the Committee on Committees, for a period of two years, two (2) being elected each year from a slate of at least four (4) nominees."

Mr. Schilling moved the adoption of the amendment to the amendment. The motion was seconded. E. R. Fitzgerald suggested that the members-at-large be elected by the faculty instead of by the Committee on Committees. Mr. Bernreuter moved another amendment to the amendment by substituting the word "elected" for the word "appointed" in the original amendment. The motion was seconded. W. G. Mather moved that the whole matter be laid on the table. The motion was seconded and passed.

Mr. Bernreuter moved the adoption of the amendments to the By-Laws as presented in his report as Section B items 1 and 2 which would add the Provost ex officio to the Senate Committees on Courses of Study and Educational Policy. The motion was seconded. Mr. Schilling moved an amendment to the amendment to add the word "nonvoting" after the word ex officio in each paragraph. The motion was seconded. There was a discussion on whether this would be setting a policy that all ex officio members would be nonvoting members. It was agreed that ex officio nonvoting applied to these two committees only. The motion to amend the amendment was passed. The motion to adopt the amendment to the By-Laws as amended was passed. Article II, Section 1(f) now reads:

Courses of Study, one member from each of the undergraduate Colleges, and the Dean of the Graduate School and the Provost, ex officio nonvoting.

Article II Section 1(g) now reads:

Educational Policy, one member from each of the Colleges and the Graduate School, and the Provost, ex officio nonvoting.

Mr. Bernreuter moved the adoption of the amendments to the By-Laws as presented in his report as Section B items 3 and 4. The motion was seconded. Mr. Schilling proposed an amendment which would provide for representation from all Colleges and the Graduate School. The motion was seconded and passed. The motion to amend Article II, Section 1 of the By-Laws as amended was passed. Article II, Section 1 will include the following new committees:

Research Policy, one member from each of the Colleges and the Graduate School, and the University Coordinator of Research, ex officio nonvoting.

Extension Policy, one member from each of the Colleges and the Graduate School, and the Director of General Extension, ex officio nonvoting.

Mr. Bernreuter moved the adoption of Section B items 5 and 6. The motion was seconded. He moved that the amendment be amended by striking out the last four words "pertaining to educational matters." The motion was seconded and passed. The amendment as amended was passed. Article II, Section 2 of the By-Laws now reads:

Research Policy:—The Committee on Research Policy shall make recommendations concerning research policy.

Extension Policy:—The Committee on Extension Policy shall make recommendations concerning extension policy.

The report of the Committee on Committees and the report of the Committee on Educational Policy containing amendments are on file in the office of the secretary.

Mr. Schilling moved that the report of the Committee on Educational Policy which had lain on the table for one month be withdrawn. The motion was seconded and passed.

NEW BUSINESS

At the May 1954 meeting of the Senate the matter of permitting a reporter of the Daily Collegian to attend the Senate meetings was discussed and voted upon. Since there was some misunderstanding as to whether this applied to the May 1954 meeting only or to all meetings, the matter was again brought to the attention of the Senate. B. A. Whisler moved that the matter be referred to the Senate Committee on Rules. The motion was seconded and passed.

Mr. Fitzgerald suggested that the members of the Senate be permitted to state their preference as to what committee duties they would like.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

President Walker spoke of the revised form for preparing the budget for the next biennium. He also spoke of his awareness of the fact that there is need for improvement of the communications in our organization. We have three stems of work, residence instruction, extension, and research, and it is our desire to have all receive the same kind of attention, budget and policy wise from the Trustees, the Administration, and the Senate. In October a very informative meeting was held with some of the Trustees, and future meetings will probably be held. He suggested departmental meetings as a further means of aiding communication. He requested that the Senate re-examine itself to see what its members should be doing to represent the faculty in policy matters. Why not re-examine the committee structure and the membership. The Senate is the policy making body of the University. The Administration administers the policies, but the Senate makes them, subject to the approval of the Board of Trustees.

The next meeting of the Senate will be on December 6 with the agenda being distributed on November 21, 1956.

The meeting adjourned at 5:29 p.m.
C. O. WILLIAMS
Secretary

Report from the Registrar

WITHDRAWALS (campus)

- 1 Badman, Donald John, G&M, Oct. 24
- Sp Broadhurst, Virginia V., Oct. 23
- 6 Chock, Martha Jane, A&L, Oct. 23
- 5 Flory, Shirley Ann, A&L, Oct. 23
- 3 George, Carl W., ME, Oct. 24
- Jablon, Alan, DIR, Sept. 14
- 5 Moore, William Lee, EE, Oct. 26
- 5 Parker, Donn W., DIR, Oct. 23
- 1 Ping, Robert Roe, Psy, Oct. 26
- 1 Potter, Walter Bruce, Oct. 26
- 5 Roubaud, Robert B., Oct. 22
- Sp Sorge, Helen J., Oct. 26
- 3 Turner, Richard Charles, Chem, Oct. 23

WITHDRAWALS (Undergraduate Centers)

Bachelor Degree Program

- 1 Altmeyer, Gretchen S., ArtEd, Oct. 8
- 1 Barrett, Collette E., PhD, Oct. 17
- 1 Bock, Duane Calvin, EE, Oct. 5
- 1 Devinney, Edward William, EE, Sept. 19
- 3 Gould, Elliott L., A&L, Oct. 2
- 1 Graybeal, Dorothy Anne, Ed, Oct. 13
- 2 Green, Barbara Evelyn, A&L, Oct. 4
- 4 Heath, Glenn J., Jr., DIR, Oct. 13
- 1 Johnson, Peter J., BA, Sept. 29
- 3 Mack, Victor Paul, EE, Sept. 25
- 1 Moran, John Raymond, BA, Sept. 25
- 1 Sanden, Peter Alan, ME, Oct. 9
- 1 Sialaff, Maria Hildegard, ApArt, Sept. 22
- 1 Tushim, Michael P., EE, Oct. 23
- 1 Vos, Frank Alexander, PM, Oct. 5
- 1 Walsh, Barbara Frances, BA, Sept. 17
- 1 Waters, Barbara Constance, HEC, Sept. 17
- 1 Wilson, Alex F., EE, Oct. 5
- 1 Zimmerman, Robert Joseph, Ed, Oct. 5

Associate Degree Program

- 1 Dively, William Edward, DDT, Oct. 13
 - 3 Johns, James Robert, DDT, Oct. 17
 - 1 Seger, Detlef Ebert, DDT, Oct. 5
- The following reasons were given for withdrawing: Personal 20, Scholastic 2, Illness 3, Financial 3, Employment 2, Transferring 2 and Other 2.

Films Selected for Preview

The Audio-Visual Aids Library has requested the following films for preview. Faculty members desiring to be notified when prints arrive should call Extension 2051.

- "Exploring in Paint"
- "Careers in the Building Trades (Basic Skills)"
- "Farewell, Oak Street" (slum clearance and subsidized housing)
- "V for Volunteers" (volunteer workers in the community)
- "Story of King Midas"
- "Ca CO₃" (mining of raw calcium carbonate)
- "Pay Dirt" (improved techniques for mining iron, copper, uranium and zinc)
- "People Who Work at Night"
- "One Little Indian" (safety)
- "Look Alert: Stay Unhurt!" (safety)
- "Gentleman Jekyll and Driver Hyde" (safety)



Plant pathologists Dr. H. B. Couch, standing right, and Dr. R. D. Schein, seated right, are trying to learn more about cancer through research on tomatoes. Elizabeth Woods, above, is technician on the project.



Research On Tomatoes Seeks Cancer Information

AN understanding of the growth of cancer cells is the goal of research in "crown gall," a cancer-like growth occurring in tomatoes, roses, and other plants.

Under a grant from the Pennsylvania Division of the American Cancer Society, plant pathologists Dr. Houston B. Couch, Dr. Richard D. Schein, and Dr. Harry C. Frick will study crown gall in tomatoes, bacterially caused tumors of plants. In many ways, Dr. Couch explains, these tumors are like animal cancers and are easier to study.

Although much has been done on the crown gall disease, Couch says little is known of the abnormal growth. He and his associates are interested in tracing tumor growth from the first abnormal cell.

"Before this phase can be tackled, however," Couch points out, "we will have to study thoroughly the normal anatomy of the tomato plant. From this we will be able to determine the origin of the various tissue groups in the stem."

Periodically, in the laboratory, thin sections of plant tissues will be taken and studied under the microscope. This is a tedious process in that thousands of sections will have to be prepared and studied to be certain of recognizing each step in growth.

Once normal growth has been studied, Couch will then be able to induce tumorous growth by inoculating plants with casual bacteria. Comparisons with normal growth will then be made.

The basic problem is to determine

why a certain tissue group suddenly "goes wild" and produces large abnormal masses of cells. This is cancerous growth.

It is hoped that a close analysis of this process will yield valuable information about the origin and development of cancer in plants which can be applied to research on animal tumors.

Items of Interest

Lewis E. Hoffman, minerals staff officer of the U.S. Bureau of Land Management, will address the Penn State chapter of the AIME, Wednesday, Nov. 14, at 7:30 p.m. in the Mineral Sciences Auditorium, on "Federal Mineral Lands and Our Present Minerals Program."

★ ★ ★

Dr. Joseph F. Krawiec, assistant professor of clothing and textile research, has been appointed special consultant to the committee on laundry management of the Council on Administrative Practice of the American Hospital Association.

★ ★ ★

Dr. Ruth C. Silva, associate professor of political science, recently participated in the 10th annual Harriet Elliott Social Science Forum at the Woman's College of the University of North Carolina. Dr. Silva presented a paper on "The Election Process" at one of the general sessions of the forum, which had the theme of "The Election: Issues and Prospects." She also acted as moderator at two of the general sessions.

Division Established For Travel Arrangements

To handle travel arrangements for faculty and staff members on official University travel, a transportation division will be established at the University, effective Nov. 15.

M. Josephine Groesbeck has been named transportation co-ordinator to direct the new division, which will operate as a section of the department of purchases.

In announcing establishment of the Division, Ossian R. MacKenzie, special assistant to the President, said that the Division will make itself available to arrange schedules and make the necessary reservations for different modes of travel and for hotel and motel accommodations for faculty and staff members who travel on official University business.

This will include not only arrangements for individual travel but also for group travel whether by commercial carrier or by University or privately owned vehicles. The General Extension motor fleet will be incorporated into the transportation division on Jan. 1, 1957.

Requests for scheduling and reservations should be made as far in advance of the trip as possible.

Travelers will be notified when arrangements for the trip have been completed and then may pick up their schedule and reservations from the Travel Co-ordinator.

The Division will be located in Room 308 Old Main and can be reached by telephoning extension, 2604.

Ordnance Lab Tests Model Of World's Fastest Submarine

A model of the Albacore, the world's fastest submarine, is being tested in the Water Tunnel of the Ordnance Research Laboratory.

The Albacore, a \$20,000,000 ship, was designed for speed under water. She has a fish-shaped body and a blimp-like tail, and is driven by a single five-bladed propeller rather than the conventional twin screws. Her conning tower resembles the fin of a fish, to further streamline her.

The purpose of the tests, explains Dr. George F. Wislicenus, director of the Water Tunnel, is to evaluate testing procedures which might be used at the Water Tunnel in the study of other large models. The Albacore was built after extensive tests were run on models in air tunnels and tanks at the David Taylor Model Basin. Further tests were made on the Albacore itself after its completion.

The Water Tunnel facility, designed for tests of marine propellers, body shapes, and other underwater devices, was altered for the tests of the Albacore by inserting a wood lining, resembling a wooden barrel. The Tunnel offers certain advantages in testing in that visual and acoustic observations, water pressures and speeds can be carefully controlled.

Ten Students Trained as Rehabilitation Counselors

Through a \$23,168 grant from the U. S. Office of Vocational Rehabilitation and assistance from the Pennsylvania Department of Welfare, ten students are currently being trained as rehabilitation counselors in a program administered by the College of Education.

Dr. Kenneth Hylbert, director of the project, says that the aim of the program is to provide well-trained rehabilitation counselors for public and private agencies.

The counselors help disabled persons make suitable educational and vocational plans and advise them about sources of medical care, special social services, occupational and physical therapy placement, and related aspects of rehabilitation.

The two-year program leads to a master's degree, with work in education, psychology, and sociology. Practical experience is obtained through internships arranged in co-operation with the Pennsylvania Bureau of Rehabilitation, the State Council for the Blind, and other agencies.

Student Directory Available

The Student directory, containing names of the more than 13,000 students on campus, is on sale in Room 4, Willard Hall, at Student Book Exchange, and in State College book stores. The price is 50 cents.

In addition to information about the students, the directory lists fraternities, sororities, and residence halls.

Marine Corps Band In Concert Thursday

A concert by the U. S. Marine Corps Band, for the benefit of the United States Olympic Fund, will be held Thursday, Nov. 15 in Recreation Building.

Sponsored by Sigma Chi Fraternity, concerts will be presented at 3:30 p.m. and again at 8 p.m. Tickets are priced at \$1 for general admission in the afternoon and evening, and \$1.50 for reserved seats, available only in the evening. Tickets will be on sale at the Hetzel Union Building, at Sigma Chi fraternity, and at a number of other places.

Sigma Chi is paying the guarantee of the band, and all proceeds will go to the Olympic Fund.

Special Service Offered For Veterans Day

A special service commemorating Veteran's Day will be held in the Helen Eakin Eisenhower Chapel on Sunday, Nov. 11, at 4 p.m.

Sponsored by the Committee on Inter-Religious Affairs of the University, the service will be conducted by the heads of the Jewish, Roman Catholic and Protestant groups of the University community.

Mr. Neal Riemer, political science, will be speaker. A special prayer for peace will be offered. The ceremony is offered to commemorate those who fought and died in the service of their country. It is open to all members of the University community.

Newell To Speak On Geophysical Year

Dr. Homer E. Newell, jr., of the Naval Research Laboratory, Washington, D.C., will be the third speaker in the Graduate School Lecture Series, Tuesday, Nov. 13, at 8 p.m. in Room 121, Sparks Building. His topic will be "The International Geophysical Year."

A graduate of Harvard University, Dr. Newell obtained his doctorate degree in mathematics from the University of Wisconsin in 1940. He taught mathematics at Wisconsin and the University of Maryland until 1944 and is at present a lecturer in mathematics at Maryland.

In 1942, Dr. Newell became a ground instructor in navigation and civil air regulations in the Civil Aeronautics Administration and was a lecturer in astronomy at National Park College. In 1944, he joined the Naval Research Laboratory and in 1946 became associated with the Rocket Sonde Research Section of the Laboratory and later head of that section. In 1955, he became acting superintendent of the Atmosphere and Astrophysics Division of the Laboratory.

Dr. Newell is a member of the technical panel on rocketry of the U.S. National Committee for the International Geophysical Year, among other committees.

Molecule Study Furthered By Research Corp. Grant

Dr. Lionel Goodman, assistant professor of chemistry, is seeking information on the electronic distribution in molecules under a research project sponsored by The Research Corporation.

Using extremely low temperature, approaching absolute zero, Dr. Goodman is able to slow down molecules so that they can be studied under spectroscopic equipment. Working with molecules distorted under geometric strain, he examines the colors of the spectrum of these molecules. The spectrum, he feels, will reveal the electronic distribution and binding in the molecule.

Dr. Goodman has received a Frederick Gardner Cottrell grant of \$2,760 from The Research Corporation for the study.

Dr. Walker Urges State's Universities Work Together

All of the colleges and universities of Pennsylvania must work together if they are to meet the needs of higher education in the State, Dr. Eric A. Walker, president of the University, told delegates of the Pennsylvania Association of Colleges and Universities at their annual meeting on campus recently.

He mentioned, as one possible means of cooperating, the exchange of faculty members.

Delegates represented 63 member colleges and universities at the meeting. Dr. Earl J. McGrath, director of the Institute for Higher Education at Teachers College, Columbia University, was the featured speaker at the dinner meeting of the Association.

Ed Morrow Film Shown Sunday In MS Auditorium

A special film titled "Egypt and Israel," produced by Ed Morrow, will be shown in the Mineral Sciences Auditorium on Sunday, Nov. 11, at 7:45 p.m. The film is sponsored by the Instructional Committee on International Understanding in what is hoped will be a series on "International Film and Forum."

Air Pollution Subject For MI Colloquium

Dr. Martin Barad, head of the Small Scale Section of the Atmospheric Laboratory of the Air Force Cambridge Research Center, will address the weekly Mineral Industries Colloquium on Friday, Nov. 16, at 4:15 p.m. in the Mineral Sciences Auditorium. His topic will be "Atmospheric Aspects of Air Pollution."

Scholarship Established

A \$100 scholarship for a senior student majoring in the field of insurance in the College of Business Administration has been established by the Pennsylvania Association of Life Underwriters.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, Nov. 16

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. Morton Barad, Air Force Cambridge Research Center, on "Atmospheric Aspects of Air Pollution." Sigma Xi Lecture, 8 p.m., 119 Osmond Laboratory. Dr. B. F. Skinner, professor of psychology, Harvard University, on "The Experimental Analysis of Behavior."

Saturday, Nov. 17

Varsity football, North Carolina State, 1:30 p.m.

Sunday, Nov. 18

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. John Dillenberger, professor of historical theology, Harvard Divinity School. Organ Recital, 4 p.m., Helen Eakin Eisenhower Chapel, by George Ceiga, assistant professor of music. Open to the public. Phi Mu Alpha concert, 4 p.m., Hetzel Union Building.

Monday, Nov. 19

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. W. H. Gray, professor of Latin-American history, on "Pictures Around the World." Demonstration of comic acting techniques, 7:30 p.m., Little Theatre, Old Main. Open to the public. Meeting of Color Slide Club, 7:30 p.m., Mineral Sciences Auditorium. Dr. George F. Johnson will speak on "Helpful Hints on Improving Color Slides by Cropping, Masking, and use of Filters." Monthly competition will be held.

Tuesday, Nov. 20

Economics Seminar, 12 noon, dining room "B" Hetzel Union Building. Dr. Monroe Newman, assistant professor of economics, on "Issues in Temporary Disability Insurance." Physics Colloquium, 4:10 p.m., 117 Osmond Lab. Dr. T. K. McCubbin, Spectroscopy Lab, Massachusetts Institute of Technology, on "Infrared Spectroscopy in the Fractional Millimeter Wave-Length Region." Community Concert, Pittsburgh Symphony Orchestra, 8:30 p.m., Schwab Auditorium. Meeting, Agricultural Extension and Eastern States Farmers Exchange fieldmen.

Wednesday, Nov. 21

Thanksgiving recess begins 11:50 a.m., ends Nov. 26 at 8 a.m.

Thursday, Nov. 22

Thanksgiving Day, offices and departments closed.

Monday, Nov. 26

Faculty meeting, College of Physical Education and Athletics, 7 p.m., Room 241, Recreation Building.

Pres. Walker To Address Faculty Tuesday, Nov. 20

President Eric A. Walker will address the faculty of the University at 4:10 p.m., Tuesday, Nov. 20, in Schwab Auditorium.

Tuesday, Nov. 27

Physics Colloquium, 4:10 p.m., 117 Osmond Lab. Dr. Jules Ashkin, Carnegie Institute of Technology, on "Pion Proton Scattering." AAUP Meeting, 7:30 p.m., Mineral Sciences Auditorium. Panel discussion on "Academic Honesty," with Harry K. Hutton, associate professor of education, as moderator. Plant Science Club meeting, 7:30 p.m., Room 111 Plant Industries Building. Dr. Ruth C. Silva, associate professor of political science, on "Post Mortem of the Recent Election."

Thursday, Nov. 29

Annual desert-bridge for members of the Faculty Women's Club, 2 p.m. and 7:30 p.m., in the Hetzel Union Building lounge. Canasta and sewing groups will be formed.

Liberal Arts faculty meeting, 4:10 p.m., 121 Sparks Building.

Friday, Nov. 30

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. Churchill Eisenhart, National Bureau of Standards, on "Canons of Experimental Design."

Opening night of Players production of George Bernard Shaw's "Heartbreak House," 8 p.m., Center Stage. Extension Conference Center, continues each Friday and Saturday until Jan. 12.

Faculty Advisory Council Names Committee Members

The Faculty Advisory Council, organizing for the 1956-57 year, has elected Harold J. Read, as chairman; Alfred G. Pundt, vice chairman; and Mildred Lucey, secretary.

At the meeting, the 100th since the Council was organized, the following faculty members were assigned to committees by the Executive Committee:

Faculty Welfare: W. R. Davey, chairman, A. H. Forbes, W. S. Decker, and Evan Johnson.

General Education: J. J. Schanz, chairman, G. H. Pritham, H. M. Davison, C. M. Sykes, and R. K. Vierck.

Library: W. L. Werner, chairman, C. M. Ritter, and Elizabeth Hillier.

Long Range Development: E. P. Nye, chairman, R. W. Kautz, J. F. Hall, W. R. Davey, and R. W. Taft, Jr.

Organization: C. M. Sykes, chairman, R. W. Brewster, W. S. Decker, and G. H. Pritham.

Research: Ray Pepinsky, chairman, Hugh Davison, C. M. Ritter, M. L. Dodds, and Mildred Lucey.

Salary and Tenure: A. G. Pundt, chairman, Athur Rose, R. W. Kautz, J. F. Hall, and A. Carney.

A. H. Forbes was named representative to the University Traffic Committee.

Pittsburgh Symphony Here Tuesday, Nov. 20

The Pittsburgh Symphony Orchestra, under the baton of William Steinberg, will appear in Schwab Auditorium on Tuesday, Nov. 20, at 8:30 p.m. as the second Community Concert of the season.

Sigma Xi Lecture Features Harvard Psychologist

Dr. B. F. Skinner, professor of psychology at Harvard University, will speak on "Experimental Analysis of Behavior" at 8 p.m. Friday in 119 Osmond Laboratory.

The lecture is sponsored by the Society of the Sigma Xi and is open to the public.

Dr. Skinner is a graduate of Hamilton College with his master of arts and doctor of philosophy degrees from Harvard University. Prior to his appointment to the faculty of Harvard, he was chairman of the department of psychology at Indiana University and earlier taught at the University of Minnesota.

Student Affairs Committee Appointed by Dr. Walker

An administrative committee on student affairs has been appointed by President Eric A. Walker.

The committee will be composed of the Dean of Men, Dean of Women, director of the Placement Service, director of the Health Service, the chaplain, director of the Division of Counseling, director of the Division of Intermediate Registration, manager of the Associated Student Services, director of Foreign Student Affairs, Dean of Admissions, and the director of Student Affairs.

The purpose of the committee is to serve as a two-way communication medium between the President and the student personnel officers; to study student personnel problems; and to make recommendations to the President.

The director of the Division of Counseling will serve as chairman of the committee and the Dean of Men as secretary for the first year.

Central Library

Miss Mildred Lucey

Nov. 16, 1956



Dr. Joseph Grosslight, left, and Robert Stover, of the psychology staff, work on an unusual project in relation to fish. Their studies are attempting to determine the effects of early feeding habits on the survival rate of stocked trout.

Psychologists Study Trout In Research On Environment

WHAT effect does early environment have on trout?

To the fisherman, interested only in catching the legal limit of good sized brownies, the question may be academic.

But to Joseph H. Grosslight, associate professor of psychology, and Robert E. Stover, assistant professor of psychology, environmental factors in fish survival not only have practical interest but also possible far-reaching implications in the field of psychology.

The study these two psychologists (both, incidentally avid fishermen) have initiated with a grant-in-aid from the Council on Research has its beginnings in a series of observations made by Lorenz, a European animal ecologist, with various forms of organisms. Lorenz theorized that behavior is based on stimuli exerted early in the life of an organism—fish, fowl, or man—and that these stimuli occur much earlier in life than has been supposed.

For example, Lorenz observed that young ducklings or geese will follow the first moving thing they see after hatching. In the usual case, the mother duck or goose is the first such moving object. But if a man, for example, passed the newly hatched birds first, they would follow the man.

This theory suggested to Stover that perhaps early environmental conditions were responsible for the actions of fish later in their life cycle. He questioned whether the relatively low survival rate

of fish raised in a hatchery (when they were subsequently released to natural streams) was due to predators (such as larger fish) or whether it was due to feeding habits acquired early in life.

"It is a common practice in fish hatcheries," says Grosslight, "to feed fish ground liver and fish until they are released to a stream. The fish go for it voraciously and grow rapidly."

"It has been suggested, however, that many stocked fish die of starvation in the stream, even in the apparent midst of plenty."

With the splendid cooperation of the Penna. Fish Commission Research Station at Benner Spring, Stover and Grosslight began a series of feeding schedules which differed somewhat from the normal practices. As a control group, they had 312 small trout fed on ground liver from the time of hatching until they were released to a natural stream.

A second group was started on liver but switched to a crustacean called Daphnia after two months. A third group was started on Daphnia and switched to liver at two months, and a fourth group was fed Daphnia until released.

The work was started in January and by July, somewhat early in the life cycle, they were released to a private stream where weirs and traps had been set up as control measures. Here the natural foods trout live on were available in adequate quantities and most of

the larger trout in the stream were removed by electric shock methods so predation could not be a complicating factor.

In the few months since release of the fish only a few general observations have been made and these are not at present considered significant without further study.

"We have learned, however," Stover points out, "that of the 1248 fish stocked, none moved downstream and only 116 tried to move upstream in the first two weeks. This in itself is somewhat unusual in that it has been assumed that stocked trout will try to move in all directions in search of foods."

"But more surprising, 51 per cent of these 116 were of the group which had been fed entirely on liver and 31 per cent those which had started on Daphnia and switched to liver. The remaining 18 per cent were from the other groups. Eighty-two per cent of all fish that moved had had their last feeding experience with ground liver."

"We jokingly say that they were looking for the 'liver man'."

Before deep winter sets in, Grosslight and Stover will make a population study for size and numbers and again in the spring such a study will be made. Survival will be indicated over winter in this way.

"After the spring count," they point out, "we will allow a small group of fishermen to catch the fish, which have been marked by fin-clipping to see how easy or difficult they are to catch. The Commission is interested in knowing what factors are involved in the degree of difficulty of catching trout."

The first year's work is in the nature of a pilot study and Stover and Grosslight fully expect that a complete project will take quite a number of years.

"If Lorenz's initial theory is correct," Grosslight says, "we shall have to vary our feeding schedules in many different directions to be sure we are statistically correct. We made the switch in foods, for example, after the fish were two months old. If there is significance to the types of foods, then the exact time the various hatchery foods are fed might also be very significant. We may have to make this switch after they are only a month old, or two weeks, or three months."

"Also, we released these fish when they were only fingerlings although common practice is to release them after they are of legal size."

"Thirdly, we can be pretty sure that early feeding is not the only factor in their rate of survival in natural streams."

"All of these, and presumably other factors, will have to be studied until we can safely say that Lorenz's principle applies in this case."

The study has its very practical effects unquestionably. Hatchery management may be altered as a result of the studies and fishing practices as well.

But the study may also have much deeper significance in relation to the effects of early environment on all forms

of life. While psychologists have long known that early environment is important, it may well be that the **exact** time at which various stimuli are applied may also be important.

The trout study will probably take five or ten years to complete, although significant data may be acquired in a shorter period of time. It is recognized now that fishermen, through their licenses, will have to pay for many more thousands of pounds of fish than they ultimately catch. Estimates of losses of stocked fish range up to 80 per cent. This loss stems from a multitude of factors in addition to the starvation factor postulated in this study. The loss ratio can be changed by the time of year of stocking, how closely the fisherman is behind the hatchery truck and similar events.

If, however, the fish can be taught to establish the correct feeding habits early in life, fishing in Pennsylvania may be even better than it is now.

Items of Interest

Dr. Grant W. Smith, professor of chemistry, is author of an article titled "An Experiment in Teaching General Chemistry by Closed-Circuit Television" in a recent issue of the Journal of Chemical Education.

* * *

Robert G. Cochran, research associate in the Nuclear Research project, presented a paper recently before the Research Section, Engineering Division, Association of Land Grant Colleges and Universities in Washington, D.C.

* * *

Elton B. Tait, radio-tv. editor in agricultural and home economics extension, is a member of the press-radio-tv. committee for the 35th National 4-H Congress Nov. 25-29, in Chicago.

* * *

Dr. Erwin Mueller, professor of physics, addressed the Physics Colloquium at the University of Virginia recently. He has also been invited to speak at the Applied Physics Laboratory of The Johns Hopkins University.

* * *

Dr. Paul F. Norton, associate professor of the history of art and architecture, will present two talks in Baltimore this month. On Nov. 29, he will address the Baltimore Municipal Art Society and the following day the Maryland Historical Society. Both talks are on Benjamin Henry Latrobe, architect, about whom Dr. Norton has studied extensively.

* * *

Dr. Joseph H. Britton, associate professor of child development and family relationships, has been appointed by Governor George M. Leader to a nine-member Advisory Board on problems of older workers.

Dr. Britton Studies Reasons Families Rent Or Buy Homes

WHY do people prefer to rent a home, or why do they prefer to build or buy?

That's a question Dr. Virginia Britton, professor of family economics, is working on to the view not so much of telling families what course they should take but what factors they should consider in making their decision.

In a pilot study started last year, Dr. Britton looked into the lives of 59 families in State College, Boalsburg and Bellefonte, 32 of which owned their own homes and 27 of which rented.

Dr. Britton and her "agents" asked a variety of questions to bring out the relative costs of owning or renting through the years and also the attitudes these families had about ownership or renting.

"There are many limitations in what we have already done," Dr. Britton points out, "so that our results are certainly inconclusive. I hope, however, that we may learn more about the methods of approach to this study from what we have already done."

Dr. Britton is confining her study to rental of homes, rather than apartments, to make more meaningful comparisons with home ownership. As of now, of course, her study is also limited by whatever peculiar circumstances exist in the general area of the campus.

"As the project is now progressing," Dr. Britton admits, "we are finding it an awfully large bite to chew."

The questions asked of renters or owners are thorough but yet not restricted. For example, in attempting to get at the satisfactions anticipated and realized in renting or owning, she

makes no attempt to pinpoint these for the family, but rather allows them to express their own attitudes. The wide variety of answers she has obtained so far suggests at least one general conclusion—there are many, many reasons people decide to rent or buy, but seldom do two families agree on what these same combinations of reasons are.

Dr. Britton's questions on costs are quite thorough and, with additional data, may be quite revealing. Unfortunately, before any general conclusions can be drawn, she believes that she will find it necessary to get much more data.

"For example," she points out, "most of the homes being rented were valued at several thousand dollars less than those owned. One future course we must take is to seek out matched homes to compare."

The cooperation of the families interviewed in the pilot study was encouraging to Dr. Britton. All specific information, of course, is kept confidential and is filed not by name or home but by a code number.

This study is only a part of Dr. Britton's field of family economics, in which she teaches and does research. Among young people, she has found a very decided lack of information on family economic problems. Her hope is to find a basis on which young families may make a judgment in the future. As it stands now, there is little or no literature on the subject of home ownership versus rental covering a number of years. Most people, she feels, must grope in the dark and use trial and error methods.

"These," she concludes, "can be extremely costly."

Bust Of Dr. Pattee Now in Library

Gift of the class of 1911, a bronze bust of Dr. Fred Lewis Pattee, now stands in the Library which bears his name.

Dr. Pattee served on the faculty from 1894 to 1928, when he retired as professor of American Literature. He was one of the best known and most popular professors and is the author of Penn State's Alma Mater. He died in 1950.

The bust is the work of Mrs. Sibyl Grucci, whose husband is assistant professor of English composition and conductor of the Poetry Workshop.

Much of the work of securing funds for the project was done by William S. Hoffman, dean of admissions emeritus.

Physical Education Faculty To Meet

The faculty of the College of Physical Education and Athletics will meet on Monday, Nov. 26, at 7 p.m. in Room 241, Recreation Building.

Library Hours Announced For Thanksgiving Recess

The Library hours during the Thanksgiving recess have been announced by Ralph W. McComb, librarian. On Wednesday, Nov. 21, the Library will be open from 7:50 a.m. to 5 p.m.; Thursday, closed; Friday, 9 a.m. to 5 p.m.; Saturday, 9 a.m. to 12 noon; and Sunday, closed.

Christmas Tree Orders Now Being Accepted

The department of physical plant has announced that fireproofed Christmas trees may be purchased through the department.

Trees are priced for 3-4 ft. trees, \$2.25; 5-7 ft., \$3.00; 8-10 ft., \$3.75; and taller trees, \$4.50. Orders will be accepted until Dec. 10. The size of the tree desired and the time of delivery should be stated at the time of placing the order. An interdepartmental transfer form should be used in ordering.

Report from the Registrar

Withdrawals (Campus)

- 1 Bryan, James P., Ed, Oct. 26
3 Cherry, James Linton, Jr., DIR, Oct. 30
1 Christopher, Eldon Sherwood, IE, Nov. 3
1 Cohen Marilyn Ethel DIR Oct. 30
Gr Dobies Edwin F., Phys, Nov. 2
Sp Elwell, Eva S., Oct. 29
3 Faulkner, Jean Estelle, Ed, Nov. 1
2 Federaro, John Anthony, Ed, Oct. 31
1 Glossner, David C., ChE, Oct. 26
3 Goldberg, Harry H., DIR, Oct. 30
5 Harris, Arnold M., A&L, Oct. 30
3 Johns, Peter K., GenAg, Oct. 27
1 Kirby, Theophilus P., Oct. 27
1 Lambert, Joseph Fred, BusAd, Nov. 1
Gr Lemley, Leo W., Phys, Nov. 5
7 McCallum, Carole Tower, Ed, Nov. 2
1 McCormick, William Charles, ME, Oct. 31
1 McGovern, Cora Nadene, Ed, Nov. 6
Sp Maurey, Donald L., Nov. 1
1 Palmer, Stanley Edward, For, Nov. 2
Gr Rodriguez, Orlando Suarez, Nov. 2
3 Sandler, Aaron, Nov. 1
3 Schoener, Ronald M. K., IE, Oct. 30
Gr Snedeker, Roscoe B., For, Oct. 30
3 Trumbetas, Jerome F., DIR, Nov. 5
3 Williams, Dorothy W., HE, Nov. 5

Withdrawals (Undergraduate Centers) Bachelor Degree Program

- 3 Dunn, Cornelius C., ME, Oct. 29
1 Hess, Thomas Edwin, ME, Oct. 23
1 Jones, Shirley Marlene, PhEd, Oct. 25
1 Moss, Alfred D., AroE, Oct. 22
1 Neiman, Charles Otto, MusEd, Oct. 24
1 Novak, Charles, EE, Nov. 5
1 Singiser, Robert J., ME, Oct. 26
1 Wiest, Edward Joseph, PV, Oct. 26

Associate Degree Program

- 1 Beegle, Samuel Martin, ET, Oct. 27
1 Fox, Joseph Laurence, DDT, Oct. 30
1 Horrell, John C., ET, Oct. 10
1 Miller, Nicholas D., DDT, Nov. 2
1 Mimm, Ronald John, DDT, Oct. 24
1 Nolley, Ronald Eugene, DDT, Nov. 2
1 Russo, Robert Neil, DDT, Oct. 19

The following reasons were given for withdrawal: Personal 18, Scholastic 7, Employment 3, Financial 5, Military Service 2, Illness 3 and Other 3.

Dr. Silva To Talk On Recent Election

"Post Mortem of the Recent National Election" will be the subject of a talk by Dr. Ruth C. Silva, associate professor of political science, at the meeting of the Plant Science Club on Tuesday, Nov. 27, in Room 111, Plant Industries Building, at 7:30 p.m.

AAUP To Discuss Academic Honesty

A panel discussion, with Harry K. Hutton, associate professor of education as moderator, will be the feature of the meeting of the local chapter of the American Association of University Professors, on Tuesday, Nov. 27, at 7:30 p.m. in the Mineral Sciences Auditorium.

The topic of the discussion will be "Academic Honesty." Members of the panel will include Benjamin F. Howell, Jr., professor of geophysics; Wilmer E. Kenworthy, director of student affairs; Earl B. Stavely, assistant dean, College of Engineering and Architecture; and Charles A. Swain, assistant professor of Air Science.

A business meeting will follow the program.

Grant Made To Study Wild Potatoes

A grant of \$10,000 from the National Science Foundation has been made for research in the study of relationships among 30 species of wild potatoes native to Central and South American countries.

Dr. Paul Grun, assistant professor of genetics, who will carry on the study, believes that new information will result from the crossing of these different species and contribute to an understanding of the evolution of the cultivated potato.

An attempt will be made by Dr. Grun and his associates to determine which of the species can be intercrossed. The fertility and growth characteristics of the progeny will also be studied.

The crossings may also show which of the wild species can be used to breed increased disease and insect resistance into cultivated varieties.

Poor's Works Exhibited Starting Nov. 22 In HUB

Paintings and ceramic works by Henry Varnum Poor, who painted the Land Grant Frescoes in Old Main, will go on exhibition Nov. 22 in the Hetzel Union Building and continue until December 8.

Poor's work has been exhibited in many museums in America. He also did a series of frescoes for the Department of Justice and the Department of Interior buildings in Washington in the 1930's and recently completed murals in Chicago and Louisville. He has gained recognition for his ceramics work, his sculpture, etchings, and lithographs.

A former art professor at Columbia University, he is now president of the Skowhegan School of Painting and Sculpture, Skowhegan, Me.

Better Potato Chips Sought By Breeding

The potato chip, one of America's favorite "snacks," is being subjected to scientific scrutiny.

In an effort to maintain the high quality of its product, a leading potato chip manufacturer is seeking the aid of Penn State scientists. The Wise Potato Chip Company has offered a grant of \$2,500 a year to the College of Agriculture to help support research in this field.

The grant will provide for a graduate assistantship beginning July 1, 1957, and will be under the direction of Dr. W. R. Mills, professor of plant pathology.

Dr. Mills is trying to develop new varieties of potatoes that will make good potato chips. His findings will be available to all potato chip makers as well as to potato growers.

The latter are as much interested in the subject as are the manufacturers, Dr. Mills points out, since about 40 million bushels of the 1956 crop will end up as potato chips. The potato chip industry is expanding rapidly, he says.

MI Colloquium Speakers Announced For Nov. 16, 30

Dr. Morton Barad, head, small scale section, atmospheric analysis laboratory, Air Force Cambridge Research Center, will speak on "Atmospheric Aspects of Air Pollution" at the weekly Mineral Industries Colloquium today at 4:15 p.m.

On Nov. 30, Dr. Churchill Eisenhart, chief, statistical engineering laboratory of the National Bureau of Standards, Washington, D.C., will talk on "Canons of Experimental Design."

Both talks will be given in the Mineral Sciences Auditorium.

Dr. Miller On Tour Of Latin American Countries

Dr. Warren W. Miller, associate professor of chemistry, is one of ten American scientists now on a two-months atoms-for-peace mission to six Latin American countries.

The mission is sponsored by the Atomic Energy Commission and the Department of State. Dr. Warren, who heads the academic phase of the atoms-for-peace program on campus, will be concerned with the establishment of nuclear and engineering training and some phases of the use of research and training reactors.

The countries to be visited include Chile, Peru, Ecuador, Colombia, Panama, and Costa Rica.

School Of Religion Offered by UCA

A School of Religion for faculty, staff members and townspeople is being conducted by the University Christian Association each Monday evening from 7:30 to 9 p.m. in the Helen Eakin Eisenhower Chapel program center.

The program began Nov. 12 and is continuing for six consecutive Monday evenings. There is no registration fee.

Dr. Luther H. Harshbarger, University Chaplain, is discussing "Rediscovering the Bible"; Rev. Preston N. Williams, assistant to the chaplain, "Basic Christian Ethics"; and Rev. Robert B. Starbuck, associate director of UCA, "The Meaning of Christianity."

Automation Lab Given Aid By Industries

Several industries have made contributions of equipment to aid in the establishment of the automation laboratory.

Chester Linsky, assistant professor of industrial engineering, who will head the laboratory, says that The Worthington Co. has provided a compressor, the gift having been arranged by J. P. McArthur, a 1929 graduate of the University.

Automatic controls were contributed by The Square D. Co. and H. G. Weber and Co., Inc., has provided a sensing unit. The Diamond Chain Co. has donated a working display and Zagar Tool, Inc., a gearless head for multiple spindle drill operations.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, Nov. 30

Teacher education and professional standards conference.

Faculty meeting, College of Agriculture, 4:10 p.m., Room 109 Armsby Hall.

Opening night of Players production of "Heartbreak House" by George Bernard Shaw, 8 p.m., Center Stage, Extension Conference Center. Tickets \$1.

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. Churchill Eisenhart, chief of the Statistical Engineering Laboratory, National Bureau of Standards, on "Statistical Engineering at the National Bureau of Standards."

Saturday, Dec. 1

Varsity basketball, versus Carnegie Tech, Rec Hall, 8 p.m.

Players production of "Heartbreak House."

Sunday, Dec. 2

Chapel service, 10:55 a.m., Schwab Auditorium. The Rev. A. L. Kershaw, minister, The Episcopal Foundation, Holy Trinity Episcopal Church, Oxford, Ohio.

Monday, Dec. 3

Faculty Luncheon Club, 12 noon, dining Room "A", Hetzel Union Building. Provost Larry E. Dennis, on "The Governor's Commission on Higher Education."

Farm income tax and social security short course.

Ice cream short course for supply men.

Tuesday, Dec. 4

Philosophy colloquium, 4 p.m., 236 Sparks. Jerry Stannard, instructor in philosophy, on "Theophrastus' Polymath and Philosopher."

Wednesday, Dec. 5

Forestry convocation, 11 a.m., 121 Sparks. Movie: Kimberly-Clark Corporation.

Winter meeting, Pennsylvania School Study Council.

Varsity basketball, versus Rutgers, 8 p.m., Rec Hall.

Thursday, Dec. 6

Engineering mechanics seminar, 1:15 p.m., 203 Engineering "A". Prof. G. U. Oppel, associate professor of engineering mechanics on "Some New Results and Methods in Photoelasticity."

Chemistry colloquium, 8 p.m., 117 Osmond Lab. Prof. Andrew A. Benson, department of agricultural and biological chemistry, on "Photosynthesis."

Mathematics colloquium, 2:10 p.m., 312 Sparks. Dr. Robert A. Novosad, assistant professor of mathematics, on "A Definition of a Topological Space."

Senate meeting, 4:10 p.m., Assembly Room, Hetzel Union Building.

Friday, Dec. 7

Players production of "Heartbreak House," 8 p.m., Center Stage.

Pres. Walker Reveals Plans In First Talk To Faculty

A change in emphasis, rather than in direction, in the University's program was promised on Nov. 20 by President Eric A. Walker in his first report to the faculty since assuming office on Oct. 1.

"Taking a look at the past, present, and future, Dr. Walker pointed out that the budget request for the next two fiscal years was now in the hands of the Governor. Only a limited amount has been requested for new projects, he said, but a sizeable amount had been asked for increases in salaries.

"I should point out," he said, "that every one per cent increase in faculty salaries means an increase in the budget of a third of a million dollars.

"It doesn't stop there, however. Secretarial and service salaries must also be increased. In several areas which must pay their own way, such as housing and food service, increases in staff salaries create an additional problem."

Reviewing, with the aid of slides, the comparison of faculty salaries at Penn State and other colleges and universities in Pennsylvania and the rest of the nation, Dr. Walker pointed out that, particularly in the professorship level, Penn State suffers by comparison with comparable institutions.

"I do not think that we can compete at the highest levels with some of our Ivy colleges, nor do I think we can select isolated departments here and there and expect us to compete with all of them.

"I do feel, however, that we must accept the fact that we are in the same league as Ohio State, Purdue, Michigan, Illinois and Wisconsin, and we must have salaries comparable to them."

Looking into the future, Dr. Walker pointed out that by 1975, it is expected that 45,000 students in Pennsylvania will have to be provided for whom we do not now take care of.

"Is it possible," he questioned, "that we will ask all freshmen and sophomores to take their work at centers? If

we do this, what part will these centers play in relation to the main campus?"

Dr. Walker praised the suggested criteria which had been recommended to him by the deans of the several colleges, and the provost, the dean of admissions, and of the Graduate School, for determining long-range building plans. He said that teaching needs, rather than those of research, would be considered first.

In commenting further on research, he said that there is need for further action in the neglected areas, such as the social sciences and the humanities. One way of doing this, he added, was to release more teachers from teaching duties periodically to finish research they may have already started but never found time to finish.

Discussing the subject of a research executive for the University, Dr. Walker said that if and when he is selected he should be one who would administer the research affairs of the University along the following lines:

1. preserve the freedom of the individual investigator.
2. preserve the integration of teaching and research.
3. standardize, so far as possible, policies and procedures governing the acceptance and administration of research funds and projects, working with the deans of the Colleges.
4. assist those Colleges, Schools, Departments and individuals who ask for help in making contacts with sources of research funds.

Explaining that the University, in common with other State agencies, will now operate on a performance budget, rather than a deficit budget as in the past, Dr. Walker emphasized that by 1959 all enterprises will probably have to justify their expenses.

"You can best support me," he suggested, "by evaluating every procedure, every program, and every expenditure for which you are responsible by asking yourself, in the light of the overwhelming task we face: 'Is this project justifiable, and if it is, can it in any way be conducted more efficiently?'"

Central Library

Miss Mildred Allman

Nov. 30, 1956

STATE COLLECTION

Report from the Registrar

Withdrawals (Campus)

- 1 Bryan, James P., Ed, Oct. 26
- 3 Cherry, James Linton, Jr., DIR, Oct. 30
- 1 Christopher, Eldon Sherwood, IE, Nov. 3
- 3 Cohen Marilyn Ethel DIR Oct. 30
- Gr Dobies Edwin F., Phys, Nov. 2
- Sp Elwell, Eva S., Oct. 29
- 3 Faulkner, Jean Estelle, Ed, Nov. 1
- 2 Foderaro, John Anthony, Ed, Oct. 31
- 1 Glossner, David C., ChE, Oct. 26
- 3 Goldberg, Harry H., DIR, Oct. 30
- 5 Harris, Arnold M., A&L, Oct. 30
- 3 Johns, Peter K., GenAg, Oct. 27
- 1 Kirby, Theophilus, P., Oct. 27
- 1 Lambert, Joseph Fred, BusAd, Nov. 1
- Gr Lemley, Leo W., Phys, Nov. 5
- 7 McCallum, Carole Tower, Ed, Nov. 2
- 1 McCormick, William Charles, ME, Oct. 31
- 1 McGovern, Cora Nadene, Ed, Nov. 6
- Sp Maurey, Donald L., Nov. 1
- 1 Palmer, Stanley Edward, For, Nov. 2
- Gr Rodriguez, Orlando Suarez, Nov. 2
- 4 Sandler, Aaron, Nov. 1
- 3 Schoener, Ronald M. K., IE, Oct. 30
- Gr Snedeker, Roscoe B., For, Oct. 30
- 3 Trumbetas, Jerome F., DIR, Nov. 5
- 3 Williams, Dorothy W., HE, Nov. 5

Withdrawals (Undergraduate Centers) Bachelor Degree Program

- 3 Dunn, Cornelius C., ME, Oct. 29
- 1 Hess, Thomas Edwin, ME, Oct. 23
- 1 Jones, Shirley Marlene, Ph.Ed, Oct. 25
- 1 Moss, Alfred D., AroE, Oct. 22
- 1 Neiman, Charles Otto, MusEd, Oct. 24
- 1 Novak, Charles, EE, Nov. 5
- 1 Singiser, Robert J., ME, Oct. 26
- 1 Wiest, Edward Joseph, PV, Oct. 26

Associate Degree Program

- 1 Beegle, Samuel Martin, ET, Oct. 27
- 1 Fox, Joseph Laurence, DDT, Oct. 30
- 1 Horrell, John C., ET, Oct. 10
- 1 Miller, Nicholas D., DDT, Nov. 2
- 1 Mimm, Ronald John, DDT, Oct. 24
- 1 Nolley, Ronald Eugene, DDT, Nov. 2
- 1 Russo, Robert Neil, DDT, Oct. 19

The following reasons were given for withdrawal: Personal 18, Scholastic 7, Employment 3, Financial 5, Military Service 2, Illness 3 and Other 3.

Dr. Silva To Talk On Recent Election

"Post Mortem of the Recent National Election" will be the subject of a talk by Dr. Ruth C. Silva, associate professor of political science, at the meeting of the Plant Science Club on Tuesday, Nov. 27, in Room 111, Plant Industries Building, at 7:30 p.m.

AAUP To Discuss Academic Honesty

A panel discussion, with Harry K. Hutton, associate professor of education as moderator, will be the feature of the meeting of the local chapter of the American Association of University Professors, on Tuesday, Nov. 27, at 7:30 p.m. in the Mineral Sciences Auditorium.

The topic of the discussion will be "Academic Honesty." Members of the panel will include Benjamin F. Howell, Jr., professor of geophysics; Wilmer E. Kenworthy, director of student affairs; Earl B. Stavely, assistant dean, College of Engineering and Architecture; and Charles A. Swain, assistant professor of Air Science.

A business meeting will follow the program.

Grant Made To Study Wild Potatoes

A grant of \$10,000 from the National Science Foundation has been made for research in the study of relationships among 30 species of wild potatoes native to Central and South American countries.

Dr. Paul Grun, assistant professor of genetics, who will carry on the study, believes that new information will result from the crossing of these different species and contribute to an understanding of the evolution of the cultivated potato.

An attempt will be made by Dr. Grun and his associates to determine which of the species can be intercrossed. The fertility and growth characteristics of the progeny will also be studied.

The crossings may also show which of the wild species can be used to breed increased disease and insect resistance into cultivated varieties.

Poor's Works Exhibited Starting Nov. 22 In HUB

Paintings and ceramic works by Henry Varnum Poor, who painted the Land Grant Frescoes in Old Main, will go on exhibition Nov. 22 in the Hetzel Union Building and continue until December 8.

Poor's work has been exhibited in many museums in America. He also did a series of frescoes for the Department of Justice and the Department of Interior buildings in Washington in the 1930's and recently completed murals in Chicago and Louisville. He has gained recognition for his ceramics work, his sculpture, etchings, and lithographs.

A former art professor at Columbia University, he is now president of the Skowhegan School of Painting and Sculpture, Skowhegan, Me.

Better Potato Chips Sought By Breeding

The potato chip, one of America's favorite "snacks," is being subjected to scientific scrutiny.

In an effort to maintain the high quality of its product, a leading potato chip manufacturer is seeking the aid of Penn State scientists. The Wise Potato Chip Company has offered a grant of \$2,500 a year to the College of Agriculture to help support research in this field.

The grant will provide for a graduate assistantship beginning July 1, 1957, and will be under the direction of Dr. W. R. Mills, professor of plant pathology.

Dr. Mills is trying to develop new varieties of potatoes that will make good potato chips. His findings will be available to all potato chip makers as well as to potato growers.

The latter are as much interested in the subject as are the manufacturers, Dr. Mills points out, since about 40 million bushels of the 1956 crop will end up as potato chips. The potato chip industry is expanding rapidly, he says.

MI Colloquium Speakers Announced For Nov. 16, 30

Dr. Morton Barad, head, small scale section, atmospheric analysis laboratory, Air Force Cambridge Research Center, will speak on "Atmospheric Aspects of Air Pollution" at the weekly Mineral Industries Colloquium today at 4:15 p.m.

On Nov. 30, Dr. Churchill Eisenhart, chief, statistical engineering laboratory of the National Bureau of Standards, Washington, D.C., will talk on "Canons of Experimental Design."

Both talks will be given in the Mineral Sciences Auditorium.

Dr. Miller On Tour Of Latin American Countries

Dr. Warren W. Miller, associate professor of chemistry, is one of ten American scientists now on a two-months atoms-for-peace mission to six Latin-American countries.

The mission is sponsored by the Atomic Energy Commission and the Department of State. Dr. Warren, who heads the academic phase of the atoms-for-peace program on campus, will be concerned with the establishment of nuclear and engineering training and some phases of the use of research and training reactors.

The countries to be visited include Chile, Peru, Ecuador, Colombia, Panama, and Costa Rica.

School Of Religion Offered by UCA

A School of Religion for faculty, staff members and townspeople is being conducted by the University Christian Association each Monday evening from 7:30 to 9 p.m. in the Helen Eakin Eisenhower Chapel program center.

The program began Nov. 12 and is continuing for six consecutive Monday evenings. There is no registration fee.

Dr. Luther H. Harshbarger, University Chaplain, is discussing "Rediscovering the Bible"; Rev. Preston N. Williams, assistant to the chaplain, "Basic Christian Ethics"; and Rev. Robert B. Starbuck, associate director of UCA, "The Meaning of Christianity."

Automation Lab Given Aid By Industries

Several industries have made contributions of equipment to aid in the establishment of the automation laboratory.

Chester Linsky, assistant professor of industrial engineering, who will head the laboratory, says that The Worthington Co. has provided a compressor, the gift having been arranged by J. P. McArthur, a 1929 graduate of the University.

Automatic controls were contributed by The Square D. Co. and H. G. Weber and Co., Inc., has provided a sensing unit. The Diamond Chain Co. has donated a working display and Zagar Tool, Inc., a gearless head for multiple spindle drill operations.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, Nov. 30

Teacher education and professional standards conference.

Faculty meeting, College of Agriculture, 4:10 p.m., Room 109 Armsby Hall.

Opening night of Players production of "Heartbreak House" by George Bernard Shaw, 8 p.m., Center Stage, Extension Conference Center. Tickets \$1.

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. Churchill Eisenhart, chief of the Statistical Engineering Laboratory, National Bureau of Standards, on "Statistical Engineering at the National Bureau of Standards."

Saturday, Dec. 1

Varsity basketball, versus Carnegie Tech, Rec Hall, 8 p.m.

Players production of "Heartbreak House,"

Sunday, Dec. 2

Chapel service, 10:55 a.m., Schwab Auditorium. The Rev. A. L. Kershaw, minister, The Episcopal Foundation, Holy Trinity Episcopal Church, Oxford, Ohio.

Monday, Dec. 3

Faculty Luncheon Club, 12 noon, dining Room "A", Hetzel Union Building. Provost Larry E. Dennis, on "The Governor's Commission on Higher Education."

Farm income tax and social security short course.

Ice cream short course for supply men.

Tuesday, Dec. 4

Philosophy colloquium, 4 p.m., 236 Sparks. Jerry Stannard, instructor in philosophy, on "Theophrastus' Polymath and Philosopher."

Wednesday, Dec. 5

Forestry convocation, 11 a.m., 121 Sparks. Movie: Kimberly-Clark Corporation.

Winter meeting, Pennsylvania School Study Council.

Varsity basketball, versus Rutgers, 8 p.m., Rec Hall.

Thursday, Dec. 6

Engineering mechanics seminar, 1:15 p.m., 203 Engineering "A". Prof. G. U. Oppel, associate professor of engineering mechanics on "Some New Results and Methods in Photoelasticity."

Chemistry colloquium, 8 p.m., 117 Osmond Lab. Prof. Andrew A. Benson, department of agricultural and biological chemistry, on "Photosynthesis."

Mathematics colloquium, 2:10 p.m., 312 Sparks. Dr. Robert A. Novosad, assistant professor of mathematics, on "A Definition of a Topological Space."

Senate meeting, 4:10 p.m., Assembly Room, Hetzel Union Building.

Friday, Dec. 7

Players production of "Heartbreak House," 8 p.m., Center Stage.

Pres. Walker Reveals Plans In First Talk To Faculty

A change in emphasis, rather than in direction, in the University's program was promised on Nov. 20 by President Eric A. Walker in his first report to the faculty since assuming office on Oct. 1.

"Taking a look at the past, present, and future, Dr. Walker pointed out that the budget request for the next two fiscal years was now in the hands of the Governor. Only a limited amount has been requested for new projects, he said, but a sizeable amount had been asked for increases in salaries.

"I should point out," he said, "that every one per cent increase in faculty salaries means an increase in the budget of a third of a million dollars.

"It doesn't stop there, however. Secretarial and service salaries must also be increased. In several areas which must pay their own way, such as housing and food service, increases in staff salaries create an additional problem."

Reviewing, with the aid of slides, the comparison of faculty salaries at Penn State and other colleges and universities in Pennsylvania and the rest of the nation, Dr. Walker pointed out that, particularly in the professorship level, Penn State suffers by comparison with comparable institutions.

"I do not think that we can compete at the highest levels with some of our Ivy colleges, nor do I think we can select isolated departments here and there and expect us to compete with all of them.

"I do feel, however, that we must accept the fact that we are in the same league as Ohio State, Purdue, Michigan, Illinois and Wisconsin, and we must have salaries comparable to them."

Looking into the future, Dr. Walker pointed out that by 1975, it is expected that 45,000 students in Pennsylvania will have to be provided for whom we do not now take care of.

"Is it possible," he questioned, "that we will ask all freshmen and sophomores to take their work at centers? If

we do this, what part will these centers play in relation to the main campus?"

Dr. Walker praised the suggested criteria which had been recommended to him by the deans of the several colleges, and the provost, the dean of admissions, and of the Graduate School, for determining long-range building plans. He said that teaching needs, rather than those of research, would be considered first.

In commenting further on research, he said that there is need for further action in the neglected areas, such as the social sciences and the humanities. One way of doing this, he added, was to release more teachers from teaching duties periodically to finish research they may have already started but never found time to finish.

Discussing the subject of a research executive for the University, Dr. Walker said that if and when he is selected he should be one who would administer the research affairs of the University along the following lines:

1. preserve the freedom of the individual investigator.
2. preserve the integration of teaching and research.
3. standardize, so far as possible, policies and procedures governing the acceptance and administration of research funds and projects, working with the deans of the Colleges.
4. assist those Colleges, Schools, Departments and individuals who ask for help in making contacts with sources of research funds.

Explaining that the University, in common with other State agencies, will now operate on a performance budget, rather than a deficit budget as in the past, Dr. Walker emphasized that by 1959 all enterprises will probably have to justify their expenses.

"You can best support me," he suggested, "by evaluating every procedure, every program, and every expenditure for which you are responsible by asking yourself, in the light of the overwhelming task we face: 'Is this project justifiable, and if it is, can it in any way be conducted more efficiently?'"

Central Library

Miss Mildred Aliman

Nov. 30, 1956

STATE COLLECTION

Faculty-Trustee Dinner To Feature Dr. Fuchs

Dr. Ralph F. Fuchs, general secretary of the American Association of University Professors, will speak at the annual faculty-trustee dinner sponsored by the University chapter of the Association at the Nittany Lion Inn at 5 p.m., Friday, December 7. His topic will be: "The Opportunities and Responsibilities of Academic Faculties." Pres. Eric A. Walker, others from the University administration, trustees and their wives will be guests of the chapter.

Dr. Fuchs is a native of St. Louis and received his A.B. and LL.B. degrees from Washington University, the latter in 1922. He was awarded the Ph.D. from the Robert Brookings Graduate School, Washington, D.C., in 1925, and the J.S.D. from Yale in 1935. He practiced law in St. Louis, and has held several positions in the United States Department of Justice, with legal study groups in Missouri, and in professional associations.

He became a member of the faculty of the School of Law at Washington University in 1927, and has been professor of law at Indiana University since 1945. He was named general secretary of the American Association of University Professors in 1955.

Professor Merwin Humphrey, president of the Penn State Chapter, named Dr. Hugh M. Davison, professor of education research, as general chairman of the dinner. Tickets are \$3, with only a limited number available.

LeeDecker To Visit South American Countries

Charles F. LeeDecker, executive secretary of the Institute of Local Government, has been appointed secretary of the Committee on Metropolitan Government of the American Municipal Association by President Robert F. Wagner, mayor of New York.

LeeDecker attended the meeting of the American Municipal Congress, Nov. 25-28, at St. Louis, Mo. Following the Congress, the Committee will join 35 mayors and other municipal officers in a goodwill tour of four South American countries to study and observe municipal governments. The tour is sponsored by the U.S. State Department and the American Municipal Association.

Farrell, Black Named To Posts In Association

Dr. Michael A. Farrell, director of the Agricultural Experiment Station, and Dr. Alex Black, assistant director, were recently elected to major offices in the American Association of Land-Grant Colleges and State Universities.

Dr. Farrell was elected chairman of the Experiment Station Section for the 48 states and the territories. Dr. Black was named to the committee of three to review research projects in the Northeast.

Dr. Moses Hadas Talks Monday

Dr. Moses Hadas, Jay professor of Greek at Columbia University, will talk on "The Relevance of Ancient Books" on Monday, Dec. 3 at 8 p.m. in Room 121 Sparks Building. The lecture is under the joint sponsorship of the Liberal Arts Lecture Series and the Hillel Forum.

Dr. Hadas, a member of the Columbia University faculty since 1925, was ordained a Rabbi in 1926. He is the author of numerous works, including "A History of Greek Literature," "A History of Latin Literature," and "Ancilla: Two Classical Readings." He recently edited several Apocrypha works, The "Letter of Arestes," and the Third and Fourth books of Maccabees.

Dr. Franklin B. Krauss, head of the department of romance languages, will introduce Dr. Hadas. The lecture is open to the public.

Two Paintings Added To Altoona Center Collection

Paintings by Edwin Zoller, associate professor of art, and Robert Knipschild have been added to the permanent collection of the Ivyside Gallery, Altoona Center.

"Number 8-53-Landscape Derivative" is the title of the painting by Zoller, who was formerly a member of the Altoona Center staff and organized the Gallery in 1948. The Gallery now contains 35 important works by well-known artists.

Knipschild's painting is titled "Blue and White Encaustic" and involves a technique of mixing pigment with wax, rather than water or other medium.

Poor's Work Depicted In Film On Fresco

A film depicting the famous American artist, Henry Varnum Poor, at work will be shown at 7:30 p.m. tonight in the auditorium of the Hetzel Union Building. The film is entitled "Painting a True Fresco."

Dr. Harold E. Dickson, professor of history of art and architecture, will give an illustrated talk on Poor's work and tell the story of the mural project.

The film is sponsored by the national art honorary fraternity, Pi Gamma Alpha.

An exhibition of Poor's ceramics and paintings is now on display in the Hetzel Union Building and will continue there until December 8.

Holiday Dinner Served In Maple Room Dec. 12-13

A special holiday dinner of roast turkey or ham, complete with holiday trimmings, will be served in the Maple Room, Home Economics Building, on Wednesday and Thursday evenings, Dec. 12 and 13. The dinner will be prepared by students of the department of hotel and institution administration. Dinner will be served by reservation only. Call Ext. 2252.

Jean Amberson To Go To Formosa In January

Dr. Jean D. Amberson, head of the department of home economics education, will assume duties as advisor to the Taiwan (Formosa) Provincial Normal University on Jan. 1.

Dr. Amerson will go to Formosa to aid in the broadening of the home economics education program there. She will be responsible for the development of the existing program, the improvement of physical facilities, and of the in-service program of instruction to up-grade teachers.

Since April, 1953, Penn State, under the auspices of the International Cooperation Administration, has been carrying on a vocational education training program on Formosa in the fields of industrial arts. The program is designed to train enough native teachers and administrators to take over the program when U.S. assistance is withdrawn. The latest appointment extends and broadens Penn State's part in the program.

Three faculty members—William A. Williams, Ralph D. Widdowson, and Ralph S. Hoole—are now at Taiwan Normal University with the industrial education program. S. Lewis Land, head of the industrial education department, has made three visits to Formosa, the first, in 1953, to survey the project. He returned in 1954 to evaluate the progress and again this year. He has just returned from Formosa after seven weeks there.

Arnold Named Special Assistant to President

Christian K. Arnold, associate professor of engineering research and technical editor of the Ordnance Research Laboratory, has been named staff assistant to the President on a part-time basis. He will continue to devote half his time to the work at the Ordnance Lab.

A graduate of the University of Colorado, Arnold received the degrees of bachelor of arts, master of arts in English literature and master of education in educational administration. He taught in the public schools of La Junta, Colo., before entering the Air Force in 1942; from 1945 to 1952 he served as instructor in English in the College of Engineering, University of Colorado; and he was technical editor with the U.S. Naval Civil Engineering Research and Development Laboratory, Port Hueneme, Calif. He was appointed to the faculty in 1953.

Heartbreak House Opens At Center Stage

The Penn State Players production of George Bernard Shaw's "Heartbreak House" opens tonight at Center Stage in the Extension Conference Center. Curtain time is 8 p.m.

The play will run every Friday and Saturday until Jan. 12. Tickets, at \$1, are obtainable in the Hetzel Union Building and at the door.

Expansion of Services Planned By New Division of Counseling

Dr. Donald Ford, in charge of the counselors in the new Division of Counseling, second from right, talks over plans with other counselors, including, Seabury Hough, Ralph Krecker, and Andrew Edmiston.



THE ultimate goal of the new Division of Counseling is to help every student achieve as close to the limits of his capabilities as possible.

"This implies," says Dr. Robert G. Bernreuter, director of the Division, "that the entering freshman will not only be a potential graduate of the University but that he will have selected the career for which he is best suited."

This, for any university is Utopia, and no one in the Division believes that Utopia will be reached. However, the lengths to which the Division has already gone in the few short months of its existence makes the University's future in relation to its graduates look bright indeed.

In less than a half-semester, for example, the Division has personally counseled nearly sixty per cent of the freshman class, including, of course, the more than 1100 who received pre-registration counseling in the summer.

Since the fall semester opened, freshman students from the Colleges of Agriculture, Business Administration, and Engineering and Architecture, have

been called to the Division's offices for personal guidance. Eventually, if problems of budget and personnel are solved, freshman from all colleges will be given this same guidance, whether they are below-average, average or superior students.

In pre-registration counseling, more than 300 of the 1100 tested and counseled chose to change their goals.

"In many of these cases," Dr. Bernreuter points out, "the parents who had been a strong influence in selecting the original goal were quite satisfied with the change, and thanked us sincerely for our guidance."

As part of the testing program, the student is asked to fill out a lengthy personal information blank which reveals many facets of the student's background and philosophy to the trained counselor. This information, too, is helpful in aiding the prospective freshman make up his mind about the goals he will try to reach.

"We are pleasantly surprised," says Dr. Donald H. Ford, assistant director of the Division, "at the seriousness and clarity of thinking on the part of these entering students. Even so, it is obvious that many have lacked solid information on which to base their future."

As one aid, the Division is building up a library of information on careers to which students may refer whenever they wish. Dr. George R. Hudson, assistant professor of education, is helping half-time with career guidance, and this phase of the Division's work will be increased.

In the first half-semester of this year, the most frequent single difficulty found among the freshmen of the three colleges is Math 41, normally required of engineers in the first semester. In a number of cases, the probable success of the student in this course is so limited that either he has been advised to drop back to Math 2 (which is more basic) or to plan on a change to a different curriculum. (Peculiarly, however, a number of Agriculture students, in curricu-

lums in which Math 41 is not required until the second semester, are found to be quite capable of carrying that course in the first semester.)

Specific course and curriculum details are only segments of the Division's concern. The multitude of factors contributing to the probable success or failure of a student are explored in guidance work, including his personal life. Consequently, some students are advised that Penn State may not be the right university for them and they will make a transfer to another school before they get into such serious difficulties at Penn State that a transfer is impossible or extremely difficult to make.

"Although we believe," says Dr. Bernreuter, "that potentially all students who enter here under the two-fifths rule are capable of graduation, we do not necessarily believe that they will do their best work here. Some students are not suited to a large university and others would do better to go to school at home."

The measurement of the Division's effectiveness, in the future, may well create a dilemma. If it is assumed that the Division's work would be completely effective, then all, or nearly all, freshman students will go on to graduate. In theory, this would mean that the four classes would be of approximately equal size. Assuming, logically, that the total enrollment is quite limited, then the number of new admissions would be proportionately smaller.

"Another alternative," Dr. Bernreuter points out, "is that our standards would be increased so drastically that we would be failing students who, under our present circumstances, are considered quite adequate. If other colleges fail to accept our failures, then apparently good students will fail to get a degree."

This, obviously, is a theoretical result, unlikely to be reached. Yet relatively speaking, it is not an impossible situation, and the Division's progress

Continued on Next Page



Career advice and information is given by Dr. George Hudson, discussing a particular case with counselor Marjorie Mahoney.

Counseling—

Continued from Previous Page

will then be measured only by the ultimate success of University graduates 20 or 30 years later. The usual criterion of guidance work—percentage of entering students who graduate—will not be a proper one for the Division.

In no sense is the Division's work expected to supplant that of the departmental advisors. In fact, it is now planned to develop close ties between these advisors and the Division staff, as has already been done in the College of Business Administration. Also, the Division plans a liaison with technical advisors in various fields, so the Division's counselors will be better informed.

The staff also plans considerable research and is now carrying on many studies. Dr. Martin Zeigler is assistant director for research and evaluation. The findings in this research may well affect the University's entrance policies as well as provide specific information for freshman programs.

The University's overall counseling program, bolstered by that of the Division, now includes many aids to students of all classes. Not only the "problem" students but those of all categories have sources of assistance. The Psychology Clinic, departmental advisors, the University psychiatrists' office, the Division of Intermediate Registration and the residence hall counselors are all part of the overall program.

Even with such assistance, some students will fail but the percentage of failures should ultimately be reduced. More important, Dr. Bernreuter believes, is that students will find early whether they are in the right field in college or whether they should be in college at all.

"We have found that freshmen know considerably less than they should," he points out, "about what is required to be a success in a certain field. Many, for example, have passed up opportunities in agriculture because they thought that any work in that area led to farming alone. Others have not realized the opportunities in mineral industries.

"Undoubtedly, too, many have been misled by the overwhelming demand for engineers, physicists and chemists in recent years and have chosen one of those fields for the apparent glamor and high starting salaries.

"Our goal is not to pour everyone into a common mold but to find a mold for which the individual is best suited."

Centennial Film Accepted By Library of Congress

A print of the film, "Centennial," has been requested by the Library of Congress for permanent deposit. The film, produced by the Motion Picture and Photographic Studio, was made for the University's centennial celebration last year.

A 16 mm film in full color, "Centennial" is at least the sixth produced by the Studios to have been accepted by the Library of Congress.

Report from the Registrar

WITHDRAWALS (Campus)

- 6 Dandois, Joseph E., EE, Nov. 1
- 5 Dotts, Frederick A., DIR, Nov. 8
- 1 Fitzgerald, Ronald Alan, EE, Nov. 9
- 3 Frown, Harry J., DIR, Nov. 9
- Gr Griffith, Franklin Ronald, GG, Nov. 9
- 2 Hartman, Kenneth E., HA, Nov. 1
- 8 Herlocher, Roy H., Jr., G&M, Nov. 12
- 2 Kaplan, Robert, DIR, Nov. 7
- 1 Livingood, Ellen L., ELED, Nov. 7
- 3 Logue, John J., DIR, Oct. 12
- 1 Lynch, Russell Waldon, Agro, Oct. 26
- 3 Phillips, Elliott A., DIR, Nov. 8
- 3 Redka, William, EE, Nov. 9
- Sp Riddle, John C. W., Nov. 7
- 1 Roughen, John Painter, A&L, Nov. 10
- Gr Weaver, Robert Glenn, Nov. 1

WITHDRAWALS (University Centers)

- Bachelor Degree Program*
- 1 Growall, Robert Williams, AH, Nov. 5
- 1 Guthrie, Cheryl Lee, ApArt, Oct. 10
- 3 Kitson, Peter N., Aero, Nov. 5

- Associate Degree Program*
- 1 Altier, John Robert, ET, Oct. 31
- 1 Burgard, Leo Paul, DDT, Oct. 19
- 1 Goodman, Elaine S., 2yrSec., Oct. 22
- 1 Leffingwell, Charles Edward, ET, Nov. 2
- 1 Letcavage, Francis Henry, DDT, Nov. 5
- 1 Lloyd, John, DDT, Nov. 3

The following reasons were given for withdrawing: Personal 14, Employment 1, Illness 3, Financial 3, Scholastic 1 and others 3.

Films Selected For Preview

The Audio-Visual Aids Library has requested the following films for preview. Faculty members desiring to be notified when prints arrive should call Extension 2051.

- "Our Productive Industry" (American natural resources in relation to manufacturing methods)
- "Central America; Nicaragua-Panama"
- "Monotype Prints"
- "Mexico: Geography of the Americas"
- "Central America: Geography of the Americas"
- "The Aztecs"
- "Sire Health"
- "Artificial Insemination"
- "Jazz of Lights" (lights of Times Square)
- "Character Make-Up for Men"
- "Theory and Application of Ultrasonic Testing"
- "Techniques of Organic Chemistry"
- "The Ganges River"
- "The People's Heritage" (American national parks)
- "Talking Hands" (sign language of the Plains Indians)
- "San Francisco Festival" (annual art festival)
- "Food for Freddy"
- "Dance in the Sun"
- "Purdue German Films"

Christmas Art Subject Of Talks By Dickson

Christmas art will be the subject of several talks by Dr. Harold E. Dickson, professor of history of art and architecture, in December.

On Dec. 6, the Penn State chapter of Phi Beta Kappa, honorary scholastic society, will hear him talk on "The Iconography of the Nativity" at the Autoport.

Dr. Dickson will talk on "The Nativity in Art" at a noon luncheon meeting of the Philadelphia Alumni Club on Dec. 9 before the State College Unitarian Society in Odd Fellows Hall.

He will also deliver this illustrated lecture at the meeting of the State College Branch, American Association of University Women on Dec. 13.

Expedite Mail Service By Complete Address

Faculty and staff members can expedite delivery of U.S. mail coming to their campus receiving point by encouraging correspondents to use a complete address.

Postal authorities point out that 90 per cent of the mail delivered to the University—averaging 6000 letters per day—is incorrectly or incompletely addressed.

The greatest single fault, officials point out, is in failing to specify a campus building and room number in the address. With the growth of the University, postmen no longer are familiar with the location of every individual on the faculty and staff as they once were. Recent postal legislation prohibits post office personnel from providing directory service.

Consequently, mail incompletely or incorrectly addressed is now being delivered in bulk to the Department of Purchases which checks it against the Student and Faculty Directories. If the name cannot then be found, the registrar checks against student records and the payroll department against payroll records. Obviously these procedures are time-consuming.

Postal authorities therefore suggest that faculty and staff members inform correspondents of their campus address in the following form:

Joe Doe
Department of Dairy Science
The Pennsylvania State University
105 Dairy Bldg.
University Park, Pa.

The office address given here is not necessarily the room number in which the employe has his desk but rather that in which he receives his mail. In many departments, mail for some individuals is not delivered in the same building as the person's office but rather in a location which is centralized for all members of the department.

Use of the department name alone is not sufficient address since some departments have mail delivered in a number of locations. For example, mail is delivered to personnel in agricultural and home economics extension at 21 different points.

Rail Schedule From New York Changed

Faculty and staff members traveling from New York to Lewistown are reminded by M. Josephine Groesbeck, travel coordinator of the University, of recent changes in schedules on the Pennsylvania Railroad.

The "late" train from New York to Lewistown has been discontinued and only the Manhattan Limited, leaving New York at 2:05 p.m. and arriving at Lewistown at 6:39 p.m. will come straight through.

However, Miss Groesbeck points out, it is possible to leave New York at 5:10 p.m. on the Trail Blazer, arrive in Harrisburg at 8:13 p.m., transfer to the Red Arrow at 8:35 p.m. and arrive in Lewistown at 9:40 p.m.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, Dec. 7

Players production of "Heartbreak House," 8 p.m. Center Stage, Extension Conference Center. Tickets \$1.

Saturday, Dec. 8

Westinghouse Lecture Sequence, 8 a.m. to 12 noon, Room 119, Osmond. Dr. C. P. Stanford, Westinghouse Corporation, on "Research and Testing Reactors."

Players production of "Heartbreak House," 8 p.m., Center Stage.

Sunday, Dec. 9

Chapel Service, 10:55 a.m., The University Chaplain, Dr. Luther Harshbarger.

Vesper organ recital, by George Ceiga, University organist, 4 p.m., in the Chapel.

Monday, Dec. 10

Faculty Luncheon Club, 12 noon, Hetzel Union Building. Dr. H. K. Wilson, director of DIR, on "The Program of Student Salvage."

Tuesday, Dec. 11

Economics Seminar, 12 noon, dining room "C", Hetzel Union Building. Prof. Sidney Siegel, assistant professor of psychology on "The Level of Aspiration and its Role in Decision-Making."

Physics Colloquium, 4:10 p.m., Room 117 Osmond Lab. Dr. D. H. Rank, professor of physics, on "Infra-Red Interferometry."

Plant Science Club meeting, 7:30 p.m., Tyson Hall, with Dr. William M. Smith, Jr., professor of family relationships, on "What Can Be Taught About Marriage."

Meeting of American Society for Metals, 7:30 p.m., Mineral Sciences Auditorium, Joseph K. Stone, Steel Plant Division, Kaiser Industries, on "The Oxygen Converter Process."

Wednesday, Dec. 12

William Primrose, viola soloist, on the State College Concert Association program, 8:30 p.m., Schwab Auditorium.

Forestry convocation, 11 a.m., Room 121 Sparks. Arthur L. Bennett, manager, dept. of woodland operations, Armstrong Forest Co., with an illustrated lecture on "New Advances in Pulpwood Harvesting and Management."

Labor relations forum at the meeting of AIME, 7:30 p.m., Mineral Sciences Auditorium. Speakers representing labor and management, with R. M. Fleming, lecturer in mining engineering, as moderator.

Thursday, Dec. 13

Engineering mechanics seminar, 1:15 p.m., Room 203, Engineering "A". John Frazier, DuPont fellow in engineering mechanics, on "Crack Propagation in Materials."

Social Science Research Center dinner meeting, 6:15 p.m., Hetzel Union Building. Dr. Samuel A. Stouffer, professor of sociology and director of Harvard Laboratory of Social Relations, on "The Social Science Methods in Rapidly Changing Times."

Friday, Dec. 14

"Heartbreak House," production of Players, 8 p.m., Center Stage. Tickets \$1.

Dr. Stouffer Featured Speaker on Dec. 14

All members of the faculty are invited to attend the dinner meeting of the Social Science Research Center on Friday, December 14, at which Dr. Samuel Andrew Stouffer, professor of sociology and director of the Laboratory of Social Relations, Harvard University, will be the featured speaker.

Dr. Stouffer, one of the foremost American scholars in the use of statistics and the application of quantitative methods in sociology, will speak on "Social Science Research in Rapidly Changing Times."

Tickets for the dinner, to be held in the Hetzel Union Building, at 6:15 p.m., are priced at \$2.60 and are obtainable from Dr. L. E. Fouraker, 202 Moffat Cottage, or from a department representative.

Dr. Ruth R. Honey, professor of family economics and housing, and Dr. Margaret B. Matson, assistant professor of sociology, are aiding Dr. Fouraker in arrangements for the dinner.

Labor Relations Forum On AIME Program Dec. 12

A labor relations forum will be the feature of the meeting of the Penn State Chapter of the American Institute of Mining Engineering on Wednesday, December 12, at 7:30 p.m. in the Mineral Sciences Auditorium.

With M. R. Fleming, lecturer in mining engineering as moderator, Harvey Younker, vice president of the United Mine Workers of America, District 2, will represent labor and J. N. Crichton, vice president of the Johnstown Coal and Coke Company, will represent management.

Christmas Recess Extended

President Eric A. Walker has announced that the Christmas recess period has been extended to include the afternoon of Jan. 2 and that classes will resume after the holiday at 8 a.m., Thursday, Jan. 3. The extra half-day will not be made up at a later date.

Primrose, Viola Soloist In Schwab on Dec. 12

William Primrose, viola soloist, will appear as the third number on the State College Concert Association program for the current year on Wednesday, Dec. 12, at 8:30 p.m. in Schwab Auditorium.

Born in Glasgow, Scotland, Primrose came to this country in 1937 to head the viola section of the NBC Symphony and since 1942 has devoted full time to solo work.

Primrose began his musical career as a prodigy violinist but in 1930 joined the London String Quartet as a violist. The Quartet toured extensively in this country as well as Europe and South America.

Ceiga Presents Recital

George E. Ceiga, University organist, will present a vesper organ recital Sunday, Dec. 9, at 4 p.m. in the Helen Eakin Eisenhower Chapel.

The program will include music by Buxtehude, Bach, Pietro Yon, Brahms, and d'Aquin. The recital is open to the public.

Ag Experiment Station Faculty To Attend Meeting

Soil scientists and economists of the Agricultural Experiment Station will take part in the meetings of the American Association for the Advancement of Science in New York City on Dec. 27-30.

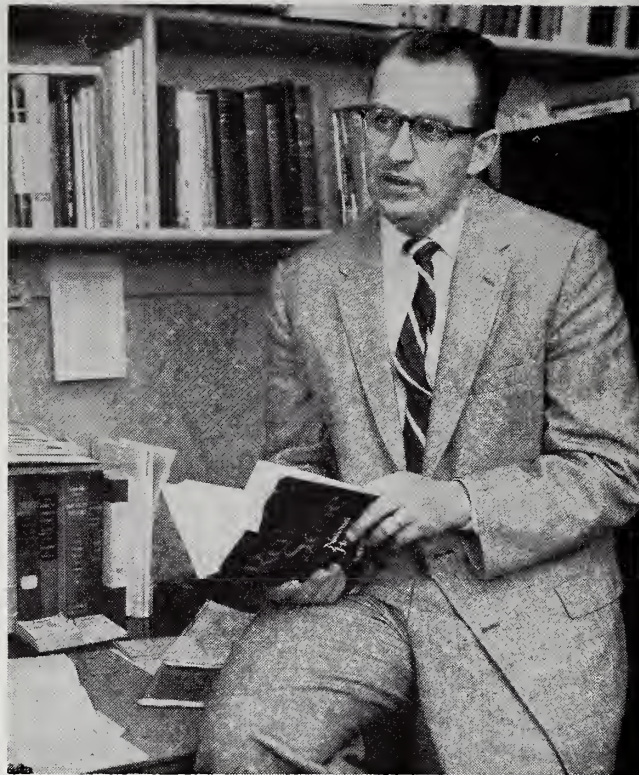
Jerome K. Pasto, associate professor of farm management, will preside at a discussion of the economics of forage. Howard B. Sprague, head of the department of agronomy, will report on proposed census procedures for reporting production on grazing lands in this country. He will also preside at a session on sciences in support of grassland research.

John B. Washko and Henry R. Fortmann, professor and associate professor of agronomy, respectively, will speak on the place and contribution of grasslands to the agriculture of the eastern states.

The theme of the meetings is "Grassland in the National Life."

History of Turbulent Years Studied by Dr. Murray

The years 1893-97 were vital in American history, says Dr. Robert K. Murray, associate professor of American history, who calls those years the turning point in many aspects of the nation's living.



What was the turning point in the history of modern America?

Historians generally point to the assassination of President McKinley and the inauguration of Teddy Roosevelt in 1901 as the date when this country emerged into a new life in domestic and foreign affairs.

But Dr. Robert K. Murray, associate professor of American history, believes the transition took place earlier—in the “Turbulent Years” of 1893-97, as he calls them. His research on the subject, now in progress, will attempt to prove or disprove his thesis with techniques seldom used by historians.

“The common method of historical research,” Dr. Murray says, “places great emphasis on the writings of historians—in other words, one historian feeds on the work of another.

“I believe, however, that in order to get a clear picture of historical changes we must make use of what every field of human life has to offer—sociology, psychology, ecology, economy, religion, perhaps anthropology. In this study, which obviously will be a lengthy one, I hope to do just that.”

Aided by a Council on Research grant-in-aid, Dr. Murray has already begun a study of some 600 “titles”—publications of many kinds—and completed about a hundred of them. But these are only the beginning.

Dr. Murray's contention is that many events took place in the 1893-96 period, events which had a lasting effect. The great debate of the time was “Silver” and William Jennings Bryan attempted a campaign for the presidency on this issue alone. But Dr. Murray calls “the

silver question” a sham and a fraud, in the sense that there were many more important issues then at stake.

“Foreign policy was then taking on a new look, leading to the modern imperialism, after the Venezuelan border dispute. The question of who would control local governments—the bosses or the electorate—came to a head.

“Labor unrest—epitomized by attacks on industrial barons—was fomented. The farmers, suffering from drouth and other agricultural catastrophes, were discontented. Governments, local and national, began to take an interest in housing and slum clearance.

“There was a struggle between the laissez faire versus government control advocates.

“But also there was an emergence of Social Christianity. Women, too, became a more important factor in local and national affairs. Technologically—with electricity developing—we were changing.

“All these questions and problems came to a focus in a relatively few years and democracy was being tested. The conclusion was reached that something was wrong with the way American democracy was working.”

Dr. Murray further points out that in the middle 'nineties the impression was given that the United States was a land of a few rich and many poor, with no middle class. This is one of the false pictures he believes will be cleared up in his research.

“No significant changes which bypass the errors of the extreme right or left can take place without a middle class,” he says.

It is Dr. Murray's feeling that many incorrect impressions have been obtained from that era. Business men were much-maligned but, as a whole, they were not the cold-hearted men the writers and cartoonists of the day pictured them to be.

“The United States was not the land of limited opportunities as some historians and social writers would lead us to believe. Many immigrants did well in this country, certainly much better than they did in their own.”

It is Dr. Murray's hope that he will be able to learn exactly what people were thinking or doing—the farmer, the coal miner, the millworker, the business man—to re-evaluate the times. This will require a detailed study of the many facets of living, not simply a chronology of events.

“The Turbulent Years,” Dr. Murray expects, will be only one volume of three he will attempt to develop. The other two volumes will precede and follow that era.

Although now only 34 years old, Dr. Murray has many publications to his credit, including the book “Red Scare, A Study In National Hysteria.” He has also written short biographies of Ole Hanson, mayor of Seattle, Wash., at the time of the IWW strikes in 1919, and of Att. General A. Mitchell Palmer, famous for his anti-communist raids on radical elements in the same period. Both biographies were written for the American Council of Learned Societies, for the “Dictionary of American Biography.”

A graduate of Ohio State University, Dr. Murray came to the University in 1949.

Art Exhibit Features Works Of New Faculty Members

An exhibit of the art works of five faculty members of the School of the Arts will open tomorrow in the Hetzel Union Building.

The exhibit includes paintings of Dr. Albert Christ-Janer, director of the School, Stuart Frost, Edwin Zoller, and George Pappas, and sculptures of Mary Rubinstein, part-time instructor in art.

Dr. Christ-Janer has exhibited paintings previously in the St. Louis City Museum, the Jocelyn Memorial, Kansas City Art Institute, Art Institute of Chicago, Detroit Institute of Arts, Metropolitan Museum, Brooklyn Museum, and elsewhere. He came to Penn State this year to head up the newly created School of the Arts from New York University where he was director of the arts center development and associate professor of research and educational planning.

Stuart Frost, who is the son of Dr. Stuart W. Frost, professor of economic entomology, did his main art studies at the Brooklyn Museum Art School and later began work for his master's degree in art history at New York University. As a Penn State senior in 1949 he worked with Henry Varnum Poor on the Land-Grant Frescos in Old Main, under whom he studied for two summers at the Skowhegan (Maine) Art School. He has exhibited at the Pennsylvania Academy of Fine Arts in Philadelphia, the Metropolitan Museum of Art and the Museum of Modern Art in

New York, and Mutler Art Institute in Youngstown, Ohio, among other galleries. He joined the full-time staff of the University this fall after serving two years as a part-time instructor.

Edwin Zoller, who came to the main campus this fall, has been connected with Penn State centers throughout the State since 1927 as teacher and administrator. His oil paintings have been exhibited in many places, from New York to Pittsburgh, from Paris to Florence. A 1921 graduate of Penn State, he taught art in Pittsburgh schools from 1921 to 1924, also doing part-time teaching at the Carnegie Institute of Technology. He studied abroad in France, Italy and Mexico. He came to the main campus from the Altoona Center.

George Pappas has studied at the Massachusetts School of Art, Harvard University, and the Massachusetts Institute of Technology. He studied painting and design with Lawrence Kupferman and Gyorgy Kepes and has travelled in Italy and Greece. He taught in the Massachusetts public schools and at Iowa State Teachers College before coming to Penn State in September. His paintings and ceramics have been exhibited in the Bush-Reisinger Museum at Harvard University, the Des Moines Art Center, the University of Iowa, and at the Boston Art Festival, among other places.

Mary Rubinstein, the wife of S. Leonard Rubinstein, assistant professor of English composition, studied at the Museum of Fine Arts, Houston, Texas; the State University of Iowa; and the Art Students League in New York. She has exhibited at the Texas General Exhibit of Fort Worth, Dallas, and Houston, Texas; the Diamond Jubilee of the Art Students League in 1950, the Des Moines (Iowa) Art Center, the Pennsylvania Academy of Fine Arts, the New York City Center, and many other places. She has studied and exhibited her works in painting, drawing, and sculpture. Among her many instructors have been William Zorach, in sculpture, and Hobson Pittman, in painting.

Translators Sought By Reference Dept.

The Reference Department of Pattee Library is asking for the names of faculty members who are willing to do translations from foreign languages. The department maintains a list of persons who will make translations and this list requires revision from time to time.

Faculty members are asked to indicate the language or languages, whether long translations or only short translations will be made, and whether there is a charge for the work.

Dr. Smith To Speak

Dr. William M. Smith, Jr., professor of family relationships, will be the speaker at the Plant Science Club meeting on Tuesday, Dec. 11, in Room 111, Tyson Hall. He will speak on "What Can Be Taught About Marriage." The meeting starts at 7:30 p.m.

Hechler Succumbs

F. George Hechler, professor emeritus of engineering research, died at his home last Saturday at the age of 72.

Mr. Hechler joined the engineering staff in 1922 and was named director of engineering research in 1935. He remained in that position until his retirement in 1949.

Dr. Stanford To Talk On Research Reactors

Dr. C. P. Stanford, project director of the radiation center, Research Laboratories, Westinghouse Corp., in Pittsburgh, will be the speaker on the Westinghouse Lecture Sequence program of Saturday, Dec. 8, from 8 a.m. to 12 noon in Room 119, Osmond Lab. He will speak on "Research and Testing Reactors."

Dr. Stanford, who received his doctor of philosophy degree from the University of Tennessee, was an Army radar officer before joining the staff of the Oak Ridge National Laboratories as an experimental physicist. After eight years at Oak Ridge, Dr. Stanford joined the Westinghouse Corp. to work on design problems associated with the Westinghouse test reactor and the fuels evaluation center. He has also worked on design of the company's research reactor.

The talk by Dr. Stanford will be the second of the series which is part of the Atomic Energy Commission Science and Engineering Program at the University.

Future speakers in the series include M. A. Schultz, S. Bartnoff, and J. Weisman, all of the Westinghouse Corporation. The lectures are open to the public.

Two Art Exhibits Conclude Tomorrow

Tomorrow is the last day the works of two well-known artists will be on display at the Hetzel Union Building.

Twenty-five of the color woodcuts of Seong Moy, Chinese-born artist who was reared in Minnesota, are being exhibited and are offered for sale. Moy is known for oil paintings, gouache, brush and ink drawings, in the manner of the 19th century Oriental theatre posters and in the contemporary abstract style.

The exhibition of the works of Henry Varnum Poor will also conclude tomorrow. On display are pottery, ceramic tiles, ceramic sculptures, paintings and a study made for the Land Grant Fresco in Old Main.

The exhibits were arranged by Stuart H. Frost, assistant professor of fine arts.

Films On Computing To Be Shown Dec. 11

Three films dealing with computing work will be shown on Tuesday, Dec. 11, at 7:30 p.m. in Room 10 Sparks. Anyone interested in the work of digital computations is invited.

The films are titled "Can Electrons Count?"; "UNIVAC"; and "SAGE."

Ag Faculty To Aid Seed Conference

College of Agriculture faculty members will participate in the 11th Annual Seed Conference Dec. 12-14, on campus.

Dr. Lyman E. Jackson, dean, will welcome the group of producers, dealers, and seed users on Dec. 13. Committee meetings for small grains, hybrid corn, and vegetable crops will be held the previous day. C. S. Bryner will handle arrangements for small grains; L. L. Huber will work with the hybrid corn committee; and B. L. Pollack will make arrangements for the vegetable crop committee.

Mauthe Establishes Scholarship

A scholarship to be known as the "J. L. Mauthe Scholarship in Remembrance of the Class of 1913" has been established to aid young men enrolled in certain technical curriculums who are members of the football, track, wrestling, or gymnastics varsity squads.

Mauthe, a member of the Board of Trustees, was graduated from Penn State in 1913 and was, and remains, one of the best athletes ever enrolled.

Students must be in one of the fields of mining, metallurgy, fuel technology, ceramics, mechanical engineering, electrical engineering, chemistry, or physics to be eligible for the scholarship.

Items of Interest

George L. Thuerling, professor of industrial engineering, was elected chairman of the industrial engineering division of the American Society for Engineering Education at its 1956 convention at Ames, Iowa.

★ ★ ★

Dr. Merritt A. Williamson, dean of the College of Engineering and Architecture, has been appointed chairman of a committee of the Engineering College Research Council of the American Society for Engineering Education, to formulate basic philosophy and policies on research agreements or research cooperation between educational institutions and industry.

★ ★ ★

John J. Labenski, associate professor of engineering research at the Ordnance Research Laboratory, recently attended the 24th Shock and Vibration Symposium at The Presidio, San Francisco.

★ ★ ★

Christian K. Arnold, associate professor of engineering research at the Ordnance Research Laboratory, presented a paper on "On the Job Development" recently at a joint meeting of the Society of Technical Writers and the Association of Technical Writers and Editors.

★ ★ ★

Dr. Boris J. Kochanowsky, assistant professor of mining engineering, spoke on "The Effect of Explosive Force and Rock Resistance in Blasting" before the Sixth Annual Drilling and Blasting Symposium at the University of Minnesota recently. He also presented a paper on "Relation Between Explosive Charge and Burden" and on Nov. 12 another paper on "Principles of Blasting" before the Second Annual Symposium on Mining Research at the University of Missouri.

★ ★ ★

Three staff members of the Ordnance Research Laboratory presented papers at the 52nd meeting of the Acoustical Society of America in Los Angeles recently. They were Dr. Paul M. Kendig, Dr. Eugen Skudrzyk, and Robert J. Urlick, all professors of engineering research.

★ ★ ★

Dr. Fred M. Coombs, professor of physical education, was one of 100 educators who participated recently in a conference at Washington, D.C., to study what might be done to meet the need for trained personnel in the field of recreation. The conference was called by the Association for Health, Physical Education, and Recreation and was jointly sponsored by the Association for Higher Education and the National Commission for Teachers Education and Professional Standards.

Dr. Paul H. Schweitzer, professor of engineering research, is spending the month of December in Germany to study engine developments of interest to Army Ordnance, and to represent the Society of Automotive Engineers in a special study.

★ ★ ★

An article by Clyde R. Wittman, instructor in industrial engineering, Robert G. Cochran, acting director of the Research Reactor, and R. D. Rung, of Curtiss-Wright Corp., appears in the October issue of "Nucleonics." The article is concerned with the underwater lights used in the research reactor.

★ ★ ★

Dr. Franklin A. Miller, Dr. James H. Moyer, and Dr. Robert B. Patrick, all professors of education, are authors of a new book titled "Planning Cocurricular Activities."

★ ★ ★

Dr. Kenneth R. Beittel, associate professor of art education, has been asked to contribute a statement on "Educational Research in Art" for the Encyclopedia of Educational Research.

★ ★ ★

Dr. Edward Mattil, associate professor of art education, will attend a conference in Washington, D.C. in January on the theme "The Role and Status of the Special Teacher of Art, Music, and Physical Education in the Elementary School."

★ ★ ★

Dr. Arthur L. Harnett, Jr., professor of physical education, is the author of an article on "Ten Years of Community-School Health Education Workshops," published in the September issue of the American Journal of Public Health.

★ ★ ★

Dr. Paul F. Norton, associate professor of history of art and architecture, contributed two chapters to the book "Nassau Hall," a history of Princeton University's administration building. The two chapters dealt with the early history of Nassau Hall.

★ ★ ★

Dr. Brice Harris, head of the department of English literature, served as chairman of a sectional meeting on "The College Literature Program for the General Student" at the convention of the National Council of Teachers of English recently in St. Louis.

★ ★ ★

A paper of "Psychiatric and Mental Hygiene Services for Colleges and Universities" prepared by Dr. George M. Lott, psychiatrist, and Dr. Herbert R. Glenn, director of the University Health Service, was presented recently by Dr. Lott before the joint meeting of the American Psychiatric Associations of Canada and Northeastern United States, at Montreal, Canada.

★ ★ ★

Dr. Miriam E. Lowenberg, head of the department of foods and nutrition, was the main speaker at the Alabama Home Economics Association meeting in Birmingham on Nov. 17. Her topic was "Food is for People."

Report from the Registrar

WITHDRAWALS (Campus)

Gr	Bosch, Ruth H., Nov. 14
Sp	Doherty, Frank J., Nov. 19
1	Duff, John E., Hort, Nov. 9
Gr	Foster, Wayne Kenneth, Nov. 8
1	Henninger, Lynn Matter, AgEd, Oct. 11
Sp	Hockett, Eugene A., Nov. 9
1	Keenan, Timothy Jay, For, Nov. 12
5	Kinsey, Don A., AH, Nov. 9
Sp	Knepper, Jr., Joseph Edmund, Oct. 31
1	Knizner, Elmer Michael, Journ, Nov. 14
4	Lindfors, Howard W., ME, Nov. 17
1	Michez, Brian C., ME, Sept. 17
1	Musheno, James Irvin, Aero, Nov. 17
3	Park, Robert B., DIR, Nov. 15
1	Pulsifer, William Scott, EE, Nov. 16
3	Rafferty, Kenneth E., DIR, Nov. 14
1	Schlegel, Warren M., BusAd, Nov. 15
3	Soltis, Stephen E., DIR, Nov. 9
5	Storch, Donald Richard, Arch, Nov. 9
1	Sylk, Kenneth F., BusAd, Nov. 9
1	Weaver, Paul E., IE, Nov. 13

WITHDRAWALS (University Centers)

Bachelor Degree Program

1	Black, Sandra, EEd, Nov. 10
3	Cohen, Raphael, A&L, Nov. 1
1	Cooper, Albert Clayton, A&L, Oct. 30
1	DiSilverio, Frances E., A&L, Nov. 12
1	McGuigan, John Edward, BusAd, Nov. 1
1	Serafini, Robert Allen, GM, Nov. 9
2	Thomas Kevin, ME, Nov. 16
3	Webb, Merrill Melvin, EE, Nov. 13

Associate Degree Program

1	Minnich, Donald G., ET, Nov. 12
---	---------------------------------

The following reasons were given for withdrawals: Personal 18, Scholastic 2, Financial 4, Illness 3, Military Service 1 and Transferring 2.

Films Selected For Preview

The Audio-Visual Aids Library has requested the following films for preview. Faculty members desiring to be notified when prints arrive should call Extension 2051.

"Running for Sheriff"
 "Body Mechanics and Fundamental Movement"
 "How Quiet Helps at School"
 "The Carnival Comes to Town"
 "Wonders of Plant Growth"
 "Basketball by Rupp"
 "Congenital Anomalies, Abnormalities of the Face"
 "The Guitar and Eye"
 "Carinthia"
 "Tyrolian Vista"
 "Winter is an Adventure"
 "Zoo Families"
 "Great Plains Trilogy. Part III—Sod House Frontier"
 "Eskimo Arts and Crafts"
 "Billie the Buffalo Baby"
 "Printing the Positive"
 "Developing the Negative"
 "Light Sensitive Materials"
 "Pilot Watershed" (soil conservation)
 "River to the Past" (Amazon River country)
 "Polynesian Dances"

Christmas Trees Available Only To University Offices

Fireproofed Christmas trees, available through the department of physical plant, are being sold only to departments and offices of the University and not to individuals. Interdepartmental transfer forms are required for ordering these trees.

As previously announced, trees are priced at \$2.25 for 3-4 ft. trees; \$3 for 5-7 ft.; \$3.75 for 8-10 ft.; and \$4.50 for taller trees.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, Dec. 14

Social Science Research Center dinner, 6:15 p.m., Hetzel Union Building. Dr. Samuel A. Stouffer, Harvard University, on "Social Science Research in Rapidly Changing Times."
Players production of "Heatbreak House," 8 p.m., Center Stage, Extension Conference Center. Tickets \$1.
Meeting of Artificial Breeding Co-ops, Hetzel Union Building.

Saturday, Dec. 15

Candlelight Service, 10:55 p.m., Schwab Auditorium. Annual Christmas program of Chapel Choir.
Varsity wrestling, versus Colgate, 7 p.m., Rec Hall.
Varsity basketball, versus Colgate, 8:45 p.m., Rec Hall.

Sunday, Dec. 16

Chapel Service, 10:55 a.m., Schwab Auditorium. Repeat of Chapel Choir annual Christmas program.
Concert by University Symphony, 3 p.m., Schwab Auditorium, T. K. Karhan, directing.

Monday, Dec. 17

Faculty Luncheon Club, 12 noon, Dining Room "A," Hetzel Union Building. A program of Christmas music, with Mrs. Willa Taylor in charge, will be given.
Meeting of College of Home Economics faculty, 4:10 p.m., to visit new home management houses.
Meeting of Color Slide Club, 7:30 p.m., Mineral Sciences Auditorium.
Department of German 27th annual Christmas sing, 8 p.m. in Schwab Auditorium. George Wurfl, professor emeritus of German, will read the story of the Nativity.

Tuesday, Dec. 18

Philosophy colloquium, 4 p.m., 236 Sparks. Dr. Stanley Rosen, instructor in philosophy, on "Spinoza's Theology and Political Freedom."

Wednesday, Dec. 19

Reading of Dickens' "A Christmas Carol" by Jon Barry Wilder, at 7:45 p.m. in the lounge of the Chapel, sponsored by the speech department, Belles Lettres Club, and the University Christian Association.

CHRISTMAS RECESS

This will be the last Faculty Bulletin of the year. The next issue will appear on Jan. 4, items for which should reach 313 Old Main by 5 p.m., Dec. 31. May we take this opportunity to extend the greetings of the season to the entire faculty.

Christmas Services In Chapel Dec. 15, 16

Candlelight Service at 10:55 p.m., Saturday, Dec. 15 will mark the beginning of the University Chapel's annual Christmas celebration in Schwab Auditorium. The same program will be presented at the regular worship service at 10:55 a.m., Sunday, Dec. 16.

The Chapel Choir of 95 voices, assisted by George E. Ceiga, University organist, and with two student soloists, William Reeves and Wayne Zarr, will present a program of music varied in scope. The service of worship will be conducted by Luther H. Harshbarger, University Chaplain, and Preston Williams, assistant to the Chaplain.

The choral numbers include: "Rejoice and Sing" from Bach's Christmas Oratorio; "Rorate Caeli Desuper" by Palestrina; "O Rend the Heavens," by Brahms; "A Spotless Rose," by Howells; "Shepherds, Shake Off Your Drowsy Sleep," a French carol arranged by Wasner; "Quid Petis, O Fili," by Cecil Cope; "A Birthday" by Kodaly; "The Falcon," by Gerrish; and "Fanstasia on Christmas Carols" by Ralph Vaughan Williams.

The organ music will include: "Improvisation on 'In Dulci Jubilo,'" by Karg-Elert; "Lo How a Rose E'er Blooming," by Brahms; and "Fifth Canonic Variation on Vom Himmel Hoch," by Bach.

Van Ormer Named Assistant Dean of Graduate School

Dr. Edward B. Van Ormer, professor of psychology, has been appointed to the part-time position of assistant dean of the Graduate School.

On the staff since 1936, when he was named assistant professor of psychology, Dr. Van Ormer has had research interest in educational and psychological measurement, learning, child psychology, and instructional aids. He is a fellow of the American Psychological Association.

Symphony Orchestra In Concert Sunday

A concert by the University Symphony Orchestra, with Theodore K. Karhan, associate professor of music and music education, conducting, will be held on Sunday, Dec. 16, at 3 p.m. in Schwab Auditorium.

The program will include "Toccata," by Fresco Baldi; "Four Russian Melodies," by Louis Gesensway; "The Adagio for Strings," by Samuel Barber; and Symphony No. 4 in G, by Dvorak. The public is cordially invited.

Christmas Sing Monday, Dec. 17

The 27th annual Christmas Sing, sponsored by the Department of German, will be held in Schwab Auditorium on Monday, Dec. 17, at 8 p.m.

The program will include music by a German singing group and the singing of three well-known German carols; the story of the Nativity, as told by George J. Wurfl, professor emeritus of German, who established the programs; and a short talk by Dr. Helen Adolf, professor of German.

The Sing is open to students, staff and townpeople.

Contracts Awarded For Altoona Center Building

The general construction contract for the classroom and administrative building to be built on the Ivyside campus of the Penn State Center in Altoona has been awarded to J. C. Orr and Sons, Altoona.

The Board of Trustees of the University earlier this year approved a grant of \$150,000 toward the new building while residents, businesses, and other groups in the Altoona area have collected the remainder of the amount for the \$500,000 structure.

The one-story building will have 19 classrooms and laboratories, a library, and faculty and administrative offices.

Senate Minutes

The University Senate met at 4:10 p.m. on December 6, 1956 in the Assembly Room of the Hetzel Union Building with President Eric A. Walker presiding.

The minutes of the November meeting were approved as printed in the Faculty Bulletin for November 9, 1956.

One hundred fifty-five senators signed the roll.

Communications from University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: D. H. McKinley (W. M. Hench), E. P. Strong (Alice Warne), W. H. Walters (R. G. Whaley), Eugene Ackerman (R. Pepinsky), A. L. Bortree (G. R. Bubash), H. K. Wilson (H. W. Wall), D. B. Swegan (E. A. Baer), H. S. Brunner (W. F. Hall), Hummel Fishburn (G. W. Henninger), J. F. Cone (E. H. Ludwig), and F. G. Brickwedde (F. L. Carnahan).

A letter from Miss Grace M. Henderson, Dean of the College of Home Economics, stated that Elizabeth Hillier would be acting head of the department of home economics education during the absence of Jean Amberson who is on leave, and would therefore serve as a member of the Senate.

The following letter from President Walker addressed to M. E. John was read:

Dear Dr. John:

The Secretary of the Senate, Dean Williams, has informed me that he has recently discussed with you the original charge to a Committee to Study the Purpose and Operation of the University Senate, of which you are chairman. I believe that the Committee was originally appointed on April 5, 1951, and that it made its first report to the Senate on December 6, 1951. However, not all of its recommendations were fully considered or adopted, nor was the Committee discharged.

As you know, I am most anxious that the University Senate assume its proper place and full responsibilities in the formulation of University policies. Obviously, however, if the Senate is successfully to perform the functions outlined in its constitution, its membership will need to be restructured to provide greater representation for elected (nonadministrative) members of the faculty. The Middle States Association of Colleges and Secondary Schools called our attention to this problem in its evaluation report.

I am most anxious therefore to have your Committee pick up the threads of its original discussions and resume its deliberations so that a carefully drawn series of recommendations dealing with the organization and operation of the University Senate might be submitted to me by March 1, 1957, in time to be placed formally on the docket of the April 1957 meeting of the Senate.

In resuming its study, the Committee should, I believe, provide all interested members of the faculty an opportunity to present their views. The original membership of the Committee included, besides yourself as chairman, Dean Euwema, Dean Schilling, Dr. Winona L. Morgan and Dr. R. G. Bernreuter. I think the Committee membership should be broadened somewhat in order that your report would be representative of the faculty as a whole — particularly the elected members of the Senate — and so I would appreciate it if you would call Mr. Dennis within the immediate future to arrange a time when you and he and the chairman of the Senate Committee on Committees, Dr. Bernreuter, might discuss the enlargement of your Committee, following which I will arrange to have appropriate letters sent to all of its members.

Sincerely,
ERIC A. WALKER
President

Reports of Standing Committees

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A" and made the following amendments to the report:

Change the note at the top of page 1 to read: Adoption of the proposed three new two-year associate-degree curriculums recommended in this report implies recommendation to the Board of Trustees of the granting of associate degrees in these three new programs.

Delete from the description at the bottom of page 4 the phrase "which leads to an

Associate Degree in Surveying Technology" and from the description in the middle of page 8 the phrase "which leads to an Associate Degree in Production Technology."

Change the title of the New Course C.E. 817 on page 6 of the report to — Cartographic Techniques.

On page 7, E.E. 813 is to be approved for Extension instead of Summer Sessions ONLY.

On page 10, change the description of I.E. 812 to read: Machine shop; forging, welding and heat treatment; and foundry practices. Delete the phrase "to be approved for Summer Sessions."

Mr. Shelley then moved the adoption of the report as amended. The motion was seconded and passed. The report is on file in the office of the Registrar.

H. K. Schilling, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented a progress report on the work being done by the various subcommittees.

R. G. Bernreuter, Chairman of the SENATE COMMITTEE ON COMMITTEES, presented a list of the membership in the newly established Senate Committees on Research Policy and on Extension Policy, together with changes in membership in five other committees. The list, which had been approved by President Walker is as follows:

Committee on Research Policy

Robert Stone, Chairman
C. R. Carpenter
H. B. Curry
E. R. Fitzgerald
Ruth Honey
R. R. Kountz
J. D. Lawther
F. R. Matson
E. P. Strong
P. L. Walker, Jr.
Coordinator of Research, ex officio

Committee on Extension Policy

A. W. Hutchison, Chairman
R. C. Blaney
R. G. Ehman
H. W. Knerr
W. G. Mather
V. E. Neilly
J. R. Rackley
A. H. Reede
Ann Schultz
C. W. Stoddart, Jr.
E. L. Keller, ex officio

Committee on Courses of Study

H. D. Zook, to replace
A. W. Hutchison

Committee on Admissions

J. A. Hardenbergh to replace
R. R. Kountz

Committee on Educational Policy

R. E. Larson to replace
R. W. Stone

Committee on Military Instruction

J. W. Dunlop to replace
C. R. Carpenter
C. I. Noll to replace
E. R. Fitzgerald

Committee on Rules

Ruth L. Pike to replace
Jean D. Amberson

D. V. Josephson, Chairman of the SENATE COMMITTEE ON ACADEMIC STANDARDS, presented a report which had been distributed at the meeting relative to the waiving of the P-11 Rule pertaining to automatic drop actions for two-year Associate Degree students. The last paragraph of the report contained the following recommendation:

In view of the confusion last year your Committee on Academic Standards recommends that Rule P-11, as it relates to drop actions for first semester Associate Degree students, be temporarily waived pending the completion of the present study.

Mr. Josephson asked for unanimous consent of the Senate to vote on this recommendation at this meeting. There being no objection Mr. Josephson then moved the adoption of the recommendation. The motion was seconded and passed. The report is on file in the office of the secretary.

Unfinished Business

J. A. Sauer, Chairman of the SENATE COMMITTEE ON RULES, presented a recommendation

That the privilege of attending any or all of the Senate meetings be granted to the editors of the Daily Collegian subject to the following provisions:

- (1) All articles concerning matters that transpired at the Senate meeting be submitted before publication to the Secretary of the Senate for approval.
- (2) The meeting is not specifically designated as a closed session.

Mr. Sauer moved the adoption of the recom-

mendation. The motion was seconded. E. H. Freund moved that the recommendation be amended by striking out the first provision. The motion was seconded. H. K. Schilling moved that the matter be laid on the table until next month. The motion was seconded and passed.

New Business

A. J. Shaler presented a recommendation for a Special Committee on Senate Membership and Functions which had been distributed prior to the meeting. This recommendation, which was signed by 18 faculty members, is as follows:

The stated function of the University Senate (Article II, Section 1 of the Senate Constitution) is to act as the sole legislative body on all questions that pertain to the educational interests of the University, and on all matters that concern more than one faculty, subject to the jurisdiction of the Board of Trustees. The President of the University has suggested that the Senate should re-examine itself both as to operation and membership to ascertain if the present organization is adequately performing its proper functions.

The Middle States Accreditation Report states (Page 14, paragraph 4), in part:

"The organization of the University Senate seems to militate against democracy of representation since each College sends its Deans and Department Heads, regardless of enrollment or total faculty . . ."

At present with a full-time faculty of 1409 there are 80 elected members of the Senate and 119 administrative (non-elected) members. Only 3 elected members are chairmen of the 13 standing committees so that the preponderance of administrative representation is further magnified.

In order to examine this problem it is recommended that:

The President appoint an ad hoc committee of the Senate to be charged with the following duties:

- (1) To recommend to the Senate means for making its membership more representative of the general faculty.
- (2) To examine and make recommendations concerning the operation of the Senate in view of its stated functions.

In carrying out these duties open hearings shall be held to give all faculty members an opportunity to present their views. The committee shall report its recommendations to the Senate not later than the April (1957) meeting.

Respectfully submitted,

E. Ackerman	S. S. Marsden
A. A. Benson	L. S. Roudiez
C. H. Blanchard	J. A. Sauer
M. Chiappetta	A. J. Shaler
E. R. Fitzgerald	P. E. Shields
C. L. Hosler	W. S. Smith
J. Jordan	R. G. Stoner
E. S. Lindstrom	T. Wartik
R. G. Mather	H. D. Zook

In view of the letter which was sent by President Walker to M. E. John, Chairman of the COMMITTEE TO STUDY THE PURPOSE AND OPERATION OF THE UNIVERSITY SENATE, Mr. Shaler suggested that Mr. John select one or two members for his committee from this group. E. R. Fitzgerald moved that recommendations (1) and (2) from this report be made a charge to the COMMITTEE TO STUDY THE PURPOSE AND OPERATION OF THE UNIVERSITY SENATE. The motion was seconded and passed. President Walker stated that he would address a communication to the committee.

Provost Larry Dennis asked that the members report to him all extant committees so that they may be added to a list of active committees which he is preparing.

President Walker spoke of his meeting in Harrisburg relative to the budget. He announced that the Trustees would meet on Dec. 7 and 8.

The next meeting will be on January 3, 1957 with the agenda being distributed on December 20, 1956.

The meeting adjourned at 4:55 p.m.

C. O. Williams
Secretary

Books on Violin Given To Library

Part of the library of the late Dr. William M. Myers, a collection of 60 volumes on the violin, has been presented to the Pattee Library by Dr. Myers' widow. Until his death in 1951, Dr. Myers was professor and head of the department of mineral economics.

Social Science Research Center Coordinates Projects of Many

IN five short years, the Social Science Research Center has accomplished at least one aspect of its original goals — to bring together the members of the faculty who are interested in research in the social sciences.

Never before, points out Dr. Macklin E. John, acting director of the Center and head of the department of agricultural economics and rural sociology, have the individual faculty members concerned with this area of university life known as much about what the other fellow is doing.

"Moreover," Dr. John adds, "there are now many more active projects in social sciences which call on the talents of several faculty members from widely scattered areas. Heretofore, projects were proposed, initiated, carried out, and reported on by individuals. Today our faculty are working, in many cases, in teams, each member of the team contributing knowledges, skills, and techniques to the overall project."

In one sense the name "Center" is an anomaly, since it is impossible to centralize the work of research which cuts across nearly every area of the University. Yet through a governing board, an executive committee, two meetings per year of the entire constituency, a regular "news and notes" publication, and (most important of all) constant discussions between individual members, a high degree of unity has been developed.

Unlike similar centers at other institutions, the Penn State group has no permanent, full-time staff, nor will it likely have one in the future. The governing board, however, is now looking for a director who will probably serve half-time in this post. He in turn will presumably find it necessary to have secretarial assistance, but the research functions of the Center will likely be in the hands of faculty who will continue to devote considerable time to teaching.

With a research "staff" of about 130 at present, the varied resources of many departments are available. Even faculty of the College of Engineering and Architecture, normally closely allied with the physical sciences, will play some considerable part in a project now in the making. This is a study of automation.

Sources of funds for research projects in the social science area are varied — foundations, individual companies, associations, and State and Federal governments. For many projects the individual staff member will seek and obtain funds; in other cases the combined efforts of several Center staff members will be necessary.

"There are reasons," Dr. John points out, "that funds are more readily obtained by a person whose already estab-

lished reputation gains him an entrance. In other cases, there is some advantage in being able to use the name, but more especially the fact, of the Social Science Research Center.

"In such cases, we can show interested donors that a thorough and complete study can be made because we have such broad talents available."

In the first five years, the Center has aided in getting a number of small grants for research but there is considerable reason to hope that some larger grants may be available in the near future.

The obtaining of money for research is only one way the Center is able to help, however important money aspects may be. Some studies are of such profound nature that it would be impossible for one staff member to carry on the work. Before the Center was established, it was difficult for the individual to obtain the help of others on the faculty because of teaching commitments. Today there are a number of projects depending on faculty in several Colleges.

"The Center," Dr. John says, "has also made faculty members more aware of research, so that many more proposals are made than before."

Penn State's Center is neither unique nor is it average. The fact that it can call for help in so many fields sets it apart from most such centers. The organization is also somewhat different, in that the governing body is not administrative and that it is elected by the constituency.

In no case is an action taken relative to a certain project unless the individual proposing it requests such action. In other words, the freedom of the individual to initiate projects is no less important than it was previously.

"Many potentially long-time projects," says Dr. John, "may be aided by the name and actions of the Center, because, for example, some foundations may hesitate to approve a project having long-time implications if the entire project hinges on an individual's work."

The first director of the Center was Dr. George E. Brandow, professor of agricultural economics, and he was followed by Dr. Samuel W. Blizzard, professor of sociology and rural sociology. Dr. John Ferguson, then professor of political science but now director of program and research for the Pennsylvania Office of Administration, was director for two years. Dr. Lester Guesj, professor of psychology, served for a year also.

The present governing board consists of Dr. John, Dr. Philip Klein, Dr. E. Willard Miller, Dr. Ruth Silva, Dr. William Butz, Dr. E. H. Freund, Dr.

James Markham, Dr. Harold Nelson, Ralph McComb, Dr. Jessie Bernard, Dr. Howard Cutler, Dr. Ruth Honey, Dr. A. G. Pundt, and Dr. William Snyder. The executive committee includes John, Markham, Bernard, Cutler and Pundt.

With President's Eric A. Walker's announcement that he was seeking a considerable sum for State appropriations for added research in the social sciences and the humanities, this phase of the University's program will take on added importance. Although the money would not be administered by the Center, many members of it would be aided by such an appropriation. But whether State money is available or not the future of social science research has a broader horizon because the Center was founded.

Scholarships Established

✓ An Agronomy Achievement Award has been established by the National Plant Food Institute, Washington, D.C., to recognize outstanding students in agronomy.

A \$200 scholarship and an engraved key will be given to the recipient of the award and a plaque containing the names of the winners will be given to the department of agronomy.

* * *

The International Nickel Co., to encourage competent students to enter the study of engineering in the fields of mining, geology, and metallurgy, has established a scholarship providing an annual stipend of \$300, and payment of tuition and fees.

Male freshmen, entering one of the fields, will be eligible for the scholarship, which may be renewed yearly.

* * *

Two \$500 scholarships, to begin with the fall semester next year, have been established by the Vesuvius Crucible Co., of Swissvale, Pa., to encourage enrollment in the field of ceramics. Freshmen students from the immediate vicinity of the company's plant will have preference in the selection of winners of the award.

✓ Meyer Granted Patent On Fuel Pump System

A patent for a fuel injection pump has been granted to Dr. Wolfgang E. Meyer, professor of engineering research.

Of particular value to eight cylinder gasoline and to diesel engines, the pump solves the particular problem in fuel injection systems of pressure waves in the lines to the nozzles of the pump. A novel system worked out by Dr. Meyer eliminates special valves.

AAUP Meets Dec. 19

The annual business meeting of the Penn State chapter of the American Association of University Professors will be held on Wednesday, Dec. 19, at 7:30 p.m. in Room 216, Hetzel Union Building.

Items of Interest

Two agricultural engineers, Elwood F. Olver, associate professor, and Ralph P. Prince, assistant professor, presented papers this week at the annual meetings of the American Society of Agricultural Engineering in Chicago.

* * *

An article by Dr. Dagobert deLevie, associate professor of German, appears in the November issue of *The Lutheran Church Quarterly*, entitled "Patriotic Activities of Calvinistic and Lutheran Clergymen during the American Revolution." The article is concerned with the historic attitudes toward Christian participation in war and politics.

* * *

Dr. Erwin Mueller, professor of physics, presented the Merck Lecture at Bucknell University recently on "Field Ion Microscopy."

A recent article features Dr. Mueller, world-famous as the result of his work in seeing and photographing the atom, in the December issue of "Science et Vie," a scientific magazine published in France.

* * *

An article on "Simplified Analysis of Rigid Frames," by Robert M. Barnoff, instructor in civil engineering, appears in the November issue of the *Journal of the Structural Division of the American Society of Civil Engineering*.

* * *

Hugh H. Chapman, Jr., assistant professor of Romance Languages, is the editor and co-author of a bibliography of comparative literature included in the 1956 Yearbook of Comparative and General Literature.

* * *

An article by Leslie P. Greenhill, Dr. C. R. Carpenter, and Dr. William S. Ray, all of the Instructional Research Program staff, appears in a recent issue of *Audio-Visual Communication Review*. The authors report the progress on the closed circuit television experiments in the article, titled "Further studies of the Use of Television for University Teaching."

Hours Announced For HUB During Christmas Recess

The Lion's Den and the Terrace Room of the Hetzel Union Building will be closed at 1:15 p.m., Saturday, Dec. 22 for the Christmas recess, according to George L. Donovan, manager of the HUB. The Lion's Den will reopen at 4 p.m. and the Terrace Room at 5 p.m. on Wednesday, Jan. 2.

The HUB desk will be open 8 a.m. to 5 p.m. on Dec. 22, 27, 28, and 31. All other areas will be closed from Dec. 23 to, and including, Jan. 1.

Films Selected For Preview

The Audio-Visual Aids Library has requested the following films for preview. Faculty members desiring to be notified when prints arrive should call Extension 2051.

"Travels through Cyprus"
 "Building of Mud (The Adobe)"
 "Swimming — Dolphin Butterfly Stroke"
 "Window" (use of educational taxes)
 "Clay on Your Hands" ceramics
 "Invisible Guardian" (traffic safety, elementary level)
 "Life Story of a Fern"
 "Communications Casebook" (human relations)
 "Bulletin Boards — An Effective Teaching Device"
 "Becoming" dramatic art
 "Amphibians"
 "Through These Doors" (study and preparation of specimens for exhibit)
 "It Didn't Have to Happen" (safety)
 "Let's Think and Be Safe"
 "Make a Movie without a Camera"
 "Wildlife of the Desert"

Transportation Division

Gets Many Travel Requests

In less than a month, since the Transportation Division was announced, 60 requests for its services have been made, M. Josephine Groesbeck, director of the Division, reports.

The requests included trips scheduled to Formosa; Quebec; Jacksonville, Fla.; Atlanta, Ga.; Lexington, Ky.; St. Louis, Mo.; Chicago; and Raleigh, N.C. Faculty and staff from all Colleges were represented in the requests.

Miss Groesbeck suggests that staff members planning on trips give sufficient advance notice so that unnecessary long distance calls and telegrams for reservations may be reduced to a minimum. Other savings may be effected, she points out, if the trip is definitely planned before reservations are requested so that cancellations or changes are not required.

Time elements, Miss Groesbeck reports, are most difficult in travel arrangements because of the lack of train and plane connections at the most advantageous times.

Commencement Exercises

To Be Held Sunday, Jan. 27

Mid-year commencement exercises at the end of the current semester will be combined with baccalaureate services on Sunday, Jan. 27, at 2 p.m. in Recreation Building.

Guests of graduates will not be required to have tickets for the program, at which the deans of the several Colleges will present the diplomas.

University marshal, David H. McKinley, will issue detailed instructions for the candidates for degrees sometime in January.

Grant Made For Stratosphere Studies

The Air Force Cambridge Research Center has made a grant of \$8,535 to be used by the department of meteorology for a study of vertical motions in the stratosphere and their relation to atmospheric ozone.

Dr. Hans Panofsky, professor of meteorology, will direct the study.

Report from the Registrar

WITHDRAWALS (Campus)

5 Blanch, Richard S., BusAd, Nov. 20
 5 Faust, David Wiley, ArtEd, Oct. 30
 5 Hanlon, Patrick John, EE, Nov. 16
 3 Kurtz, Mark, A&L, Nov. 19
 3 Patane, John D., A&L, Oct. 28
 6 Schlegel, Robert L., EE, Nov. 21
 2 Bell, Robert M., Sci, Nov. 21
 1 Bierly, Frederick Lee, ME, Nov. 29
 1 Booth, William Robert, IArts, Nov. 30
 1 Buiney, William Joseph, Aero, Nov. 20
 1 Chapman, Dane A., AgEd, Dec. 3
 3 Cuppett, Paul Allen, DIR, Oct. 26
 3 Fox, William Elmer, Jr., DIR, Nov. 21
 5 Groshens, Herbert L., DIR, Nov. 21
 1 Hannum, Robert John, Jr., IE, Nov. 30
 1 Hipkins, Lois Jeanne, HEC, Nov. 21
 5 Jonnson, Edward Leon, Psy, Nov. 29
 Gr Kensingler, John D., BusAd, Nov. 30
 5 Litterio, James, ME, Nov. 27
 5 Lozanoff, Martin, A&L, Nov. 26
 Gr Naylor, Naomi Leb, Oct. 16
 3 Pecan, Lawrence E., DIR, Nov. 27
 1 Pipas, George L., Sci, Nov. 26
 3 Rounsaville, Herbert M., ME, Nov. 29
 3 Schmucker, John G., EE, Nov. 28
 4 Siftar, James Richard, BusAd, Nov. 28
 1 Wilkins, John Alvin, A&L, Nov. 26

WITHDRAWALS

(University Centers)

Bachelor Degree Program

1 Buchanan, Jr., Harry James, AgEd, Nov. 15
 1 Dall, Ramon Keith, EE, Oct. 26
 1 Foley, Frank M., PV, Nov. 13
 2 Hatch, Richard, BA, Nov. 2
 1 Kalinovich, John Andrew, Sci, Nov. 13
 3 Klein, Arnold Russell, EE, Nov. 12
 1 Klein, Elmer Gene, Phys, Nov. 16
 1 Marchetti, Phyllis Ann, Nov. 13
 3 Schomburg, Robert John, Sci, Nov. 7
 1 Smith, Craig Wilson, EE, Nov. 13
 1 Omer, Katherine Ann, Ed, Nov. 9
 1 Ritter, Robert W., CE, Oct. 24
 1 Shapiro, Robert David, A&L, Nov. 19

Associate Degree Program

1 Lawrence, Frank Edward, ETech, Oct. 30

The following reasons were given for withdrawing: Personal 22, Illness 8, Financial 4, Transferring 1, Scholastic 3, and Other 1.

Social Science Research

Group Holds Dinner Meeting

The dinner meeting of the Social Science Research Center will be held this evening in the Hetzel Union Building at 6:15 p.m.

Dr. Samuel Andrew Stouffer, professor of sociology and director of the Laboratory of Social Relations, Harvard University, will be the featured speaker.

All members of the faculty are invited to the dinner, and tickets, priced at \$2.60, are obtainable from Dr. L. E. Fouraker, 202 Moffatt Cottage, or from department representatives.

Library Hours Announced For Christmas Recess

Hours for the Pattee Library during the Christmas recess have been announced by Ralph McComb, librarian.

Saturday, Dec. 22, the Library will be open from 7:50 a.m. to 12 noon; 23rd through the 26th, closed all day; 27th and 28th, open from 9 a.m. to 5 p.m.; 29th, 9 a.m. to 12 noon.

On Sunday, Dec. 30, the Library will be closed all day; the 31st, open 9 a.m. to 5 p.m.; Jan. 1, closed all day; Jan. 2, open 9 a.m. to 5 p.m.

The normal schedule will resume on Jan. 3.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, Jan. 4

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium, Dr. Phyllis R. Griess, assistant professor of geography, on "The Geographical Significance of Recent changes in the Bituminous Coal Mining Industries in Pennsylvania."

Digital Computer Conference, 7 p.m., 121 Sparks. Dr. L. H. Thomas, Watson Scientific Computing Center, Columbia University, on "Methods of Solving Partial Differential Equations."

Benefit performance of "Heartbreak House" by the Penn State Players, Center Stage, for refugees of fighting in Europe and Near East. 8 p.m., tickets \$1 at Hetzel Union desk and at the door.

Saturday, Jan. 5

Benefit performance of "Heartbreak House," at Center Stage.

Digital Computer Conference, 9 a.m., 109 Osmond Lab. Dr. Mary Lister, assistant professor of mathematics, and an IBM representative, on "Introduction to Digital Computers."

Varsity wrestling, versus Illinois, 8 p.m., Rec Hall.

Sunday, Jan. 6

Chapel Service, 10:55 a.m., Schwab Auditorium. Rev. Preston Williams, assistant to the University Chaplain.

Monday, Jan. 7

Varsity basketball, versus Gettysburg, 8 p.m., Rec Hall.

Faculty Luncheon Club, 12 noon, Dining Room "A", Hetzel Union Building. Samuel Crabtree, on "Gems and Precious Stones."

Digital Computer Conference, 316 Sparks, 7 p.m. Robert B. Rossheim, Sperry Rand Corp., on "Business Systems: Large Scale Data Processing."

Chemistry Colloquium, 8 p.m., 117 Osmond Lab. Mr. L. E. Copeland, senior research chemist, Portland Cement Association, on "Thermodynamics of Adsorption."

Tuesday, Jan. 8

Computer Conference, 7 p.m., 316 Sparks. Dr. John W. Mauchley, head of Univac Applications, Sperry Rand Corp., on "Weather and Election Forecasting."

Plant Science Club meeting, 7:30 p.m., Room 111 Tyson Hall. Dr. Thomas R. Porter, associate professor of education, on "Status of Science in the Secondary Schools of Pennsylvania."

NOTICE

The *Faculty Bulletin* will publish on Jan. 18 such corrections to the *Faculty Directory* as are brought to the attention of the editor by Friday, Jan. 11. No corrections received after that date will be published. Please send corrections to Room 313, Old Main.

Wednesday, Jan. 9

Varsity basketball, versus Temple, 8 p.m., Rec Hall.

Forestry convocation, 11 a.m., 121 Sparks. Charles R. Lockard, chief, Forest Utilization Service, Northeastern Forest Experiment Station.

Computer conference, two sessions. 7 p.m., 110 Electrical Engineering, Dr. E. H. Bareiss, consultant at the applied mathematics laboratory at the David Taylor Model Basin, on "Numerical Solution of the Boltzmann Equations." Also, in Room 100 Weaver Hall, at 8 p.m., Mr. James D. Gallagher, manager of development and planning of the Sylvania Electric Products, Inc., on the data processing center of that company.

Thursday, Jan. 10

Concert by Maura Lympny, pianist, Schwab Auditorium, 8:30 p.m., on the State College Concert Association program.

Computer Conference, 316 Sparks, 7 p.m. Mr. R. W. DeSio, International Business Machines Corp., on "Applications in Engineering: the solution of eigen-value problems."

Friday, Jan. 11

Annual meeting, YMCA Physical Education Directors.

Computer Conference, Room 110, Electrical Engineering, 7 p.m. Dr. I. H. Tumock, IBM applied science representative, Chicago, on "Operations Research and Computers."

Maura Lympny Presents Concert On Jan. 10

Maura Lympny, who during World War II rose to become one of England's outstanding pianists, will present a concert at 8:30 p.m. Thursday, Jan. 10, in Schwab Auditorium.

The concert is the fourth in the series sponsored by the State College Concert Association. The final number, the Westminster Choir, has been scheduled for Mar. 13, having been changed from Feb. 20.

Miss Lympny made her Town Hall debut in New York in 1948 and since that time has played several concerts in Town Hall and appeared in recitals and with major orchestras throughout this country, Canada, and Europe. Since her marriage in 1951, she has established her residence in New York and has limited her concert tours.

Her program here will include Chromatic Fantasy and Fugue by Bach; Sonata in B minor, Op. 58, by Chopin; Les Jeux d'eaux a la Villa de'este and Harmonies du Soir, both by Liszt; Bagatelles Nos. 12 and 14, Op. 6 and Allegro Barbaro, both by Bartok; and four preludes by Rachmaninoff.

Computer Conference Starts For Faculty and Staff

A series of talks on digital computers and their applications to scientific and business research began last evening and will continue until Jan. 15. A total of 163 faculty and staff members indicated earlier that they would attend the talks, which will be given by outstanding speakers from Burroughs Corp., the International Business Machines Corp., Remington Rand, United Aircraft, and University faculty members.

This evening at 7 p.m. in Room 121 Sparks, Dr. L. H. Thomas, Watson Scientific Computing Center, Columbia University, will speak on "Methods of Solving Partial Differential Equations."

Saturday morning, Jan. 5, at 9 a.m. in 109 Osmond Lab, Miss Mary Lister, assistant professor of mathematics, and an IBM representative will discuss computers and their uses.

Monday, Jan. 7, at 7 p.m., in 316 Sparks, Robert B. Rossheim will discuss "Business Systems: Large Scale Data Processing."

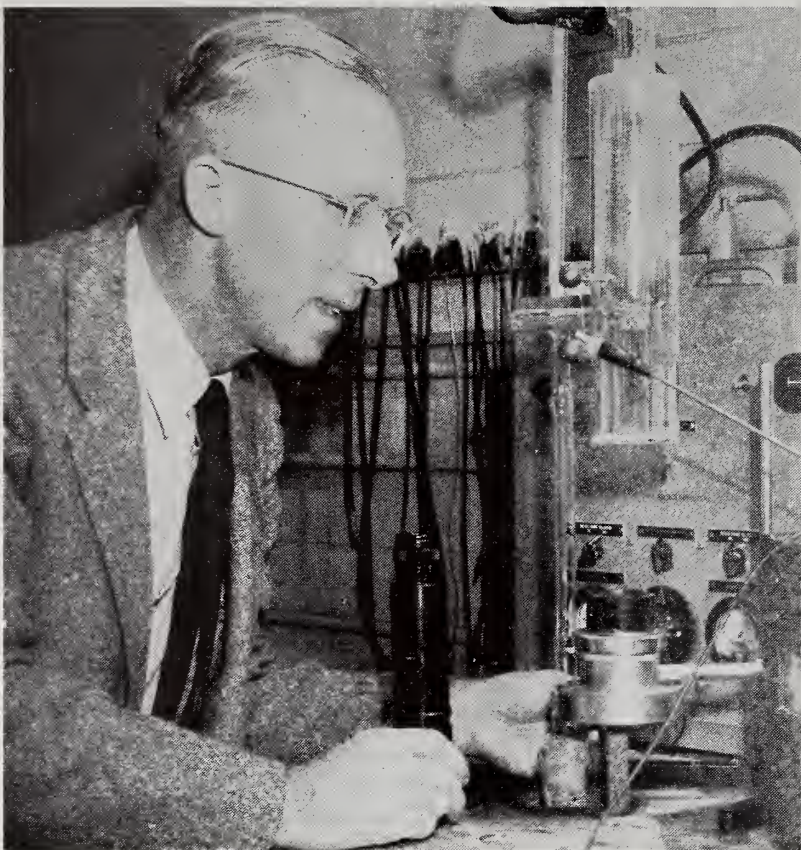
Other speakers scheduled on the program include Dr. W. G. Bouricius, manager of the Computing Center, IBM; Dr. Grace Murray Hopper, head of automatic programming research, Sperry Rand Corp.; Dr. John Mauchley, head of the applications research group of UNIVAC, Sperry Rand; L. P. Rosenbergy, IBM; and many others.

Most of the talks will be given at either 7 p.m. or 8 p.m. on weekdays. Further information may be obtained from Miss Lister, 208 Sparks.

Spring Semester Admissions Total 250 Men, 50 Women

About 300 freshmen, including 50 women students, will be admitted to the main campus and the centers for the spring semester.

Of the 250 men to be admitted, many will be veterans who began a six-months tour of duty with the Army or Marine Corps following graduation from high school last June.



Mueller's Microscope Gains Attention of Many Scientists

Culmination of 20 years work, starting in Germany, was the "seeing" of the atom by Dr. E. W. Mueller, professor of physics, last year. His low temperature ion microscope has gained the attention of scientists all over the world.

FOR many years to come, pure scientists and practicing engineers, among others, will reap the benefits from the startling research by which Dr. E. W. Mueller, professor of physics, became the first man to see and photograph the atom.

Since October, 1955, when Dr. Mueller announced that through his low temperature ion microscope he had seen the atom, other scientists in many and varied fields have made plans for further research making use of Dr. Mueller's new-found techniques.

"Chemists and physicists have theorized about the nature of the surfaces of metals," Dr. Mueller says. "Problems in oxidation, corrosion, creep of metals at high temperature, and the effects of nuclear radiation may be capable of solution through further research with this low temperature ion microscope, which permits visual evidence instead."

Even this impressive array of research topics scratches only the surface of the vast information yet to be gained because science has had to make calculated guesses instead of seeing for itself the nature of the atom structure of crystals.

It is figuratively true, for example, that nothing is perfect in nature, although the atom structure of many metals under certain conditions is nearly so. A condition of faults, disorders or dislocations (a few atoms out of place in the lattice work of a crystal) exists in metal surfaces. Such dislocations are known to be responsible for many weaknesses in metals (structurally or chemically).

Dr. Mueller has been able to alter dislocations by physical means, and observe them through this microscope.

In fact, he has been able to move a specific, pre-selected atom from one location to another and, while doing it, measure the forces required.

Consider how difficult a task this is. In the head of an ordinary straight pin there are more atoms than there are grains of sand in the beaches of New Jersey, including the dunes. And the beaches and dunes are calculated to be 30 feet deep! Finding the proverbial needle in a haystack is child's play to finding a specific atom in the surface of a piece of metal, and taking a picture of that atom in the midst of all its neighbors.

The surface which Dr. Mueller works with is the point of a fine needle of tungsten, tantalum, rhenium or molybdenum. This needle (which he makes from a fine wire in less than a minute's time in the laboratory) has a spherical point of 1,000 Angstrom units radius, about one thousand times as sharp as the tip of an ordinary pin. A high voltage electrical current is applied to the needle which is mounted in a vacuum tube and the minute quantity of helium gas surrounding the needle tip is ionized. These ions (positively charged helium atoms) stream to a fluorescent screen, where the tip surface is depicted.

To this point in the development of the present microscope, Dr. Mueller was able to "see" atoms but not clearly enough for research purposes. The picture was, in intensity, as dim as the Milky Way in that there was so much blur (not sufficient "resolution" or separation of the individual parts) to show the separation of the closely packed atoms.

Part of the reason for this lack of

sufficient resolution is that the ions have lateral velocity from rebounding from the tip. Dr. Mueller's solution to this problem lay in slowing down atoms by cooling. Liquid hydrogen reduces the temperature of the tungsten tip to 420 degrees below zero.

The total magnification achieved with the microscope is 2,000,000 times, great enough to see individual atoms and study their position relative to other atoms. Because visual observation is eye-straining, most of the studies are made of both black-and-white and colored pictures of the atom distribution.

By varying the electrical force applied to the needle, the stresses set up in the needle tip can be altered, which changes the location of the atoms. Other techniques can also be used to change the atom pattern.

Dr. Mueller's first research in this area started more than 20 years ago, in Germany. The goal was not then one of "seeing" atoms, but of obtaining greater magnification than was then possible. As a young physicist he developed the first field electron microscope, which was capable of showing objects of 10 to 15 Angstrom unit size (about five times larger than the present microscope will delineate).

The field electron microscope used much the same principle as the present ion microscope but Dr. Mueller realized that the wavy motion of the electrons presented an insurmountable limit to the resolution. It was an unorthodox step to switch to the use of ions instead of electrons, because, considered as particles, ions are much bigger than electrons and would possibly give poorer resolution. By introducing hydrogen, and subsequently helium, into the evac-

uated microscope tube which surrounds the needle and fluorescent screen, he was able to obtain such resolution that he could view objects of six Angstrom unit size. He has just started this phase of the work in 1951, before coming to Penn State.

The third step involved a thorough study of the mechanism of the ionization process at temperatures down to 450 degrees F. below zero and in electrical fields of 500 million volts per square centimeter. In the fall of 1955 he was ready to announce the first sight of the lattice structure of a metal with individual atoms. The accomplishment was worthy of attention of scientists of the entire world and he has been called upon frequently to discuss his microscope before scientific groups.

Even with this major goal accomplished, however, Dr. Mueller is not satisfied. His research now involves still further improvements, as well as basic studies of the effects on atom distribution under various conditions.

"There are several important limitations to the microscope in its present form," Dr. Mueller says. "Some of the techniques we must use are difficult to learn. Also, we are apparently now limited in the numbers of metals which will withstand the terribly high stresses set up in the needle by the very high voltages we must use. For this reason, too, the microscope cannot be used on biological specimens."

Dr. Mueller had one interesting experience when he worked with rhenium, an extremely heavy metal discovered only 30 years ago. Rhenium has several desirable properties but has been difficult to fabricate, particularly in a wire form. One company did succeed in making wire of rhenium and Dr. Mueller was able to obtain a small section. After successful use of this sample in the microscope, he asked for more wire. The company, unfortunately, had to admit that it wasn't able to duplicate its previous success and could not send any more rhenium wire at the present time.

"The operation of the microscope was quite straining," says Dr. Mueller, "particularly last summer before air conditioning was installed. During a five-hour run of the experiments the temperature in the completely darkened room rose much above 90 degrees. It required utmost concentration to avoid mistakes while reading the dimly illuminated instruments, taking notes and pictures, handling the dangerous combination of high voltage and explosive liquid hydrogen."

Dr. Mueller feels that there is still much to do in the basic development of the microscope, and that the so-called "practical" research resulting from its use will have to be done by other scientists. Now that he has accomplished the long-sought goal of "seeing" the atom, others will try to apply his methods to their special problems. At present, however, there are perhaps only six laboratories in the world where this work could be done and only three of these are starting their own programs.

Stone Valley May Be Developed For Recreation

Development of a recreational area on Shaver Creek, in Stone Valley, Huntingdon County, was approved by the Board of Trustees in December.

A man-made lake, 70 acres in area, will be the first step in the development if preliminary studies indicate the feasibility of the project. Construction of a dam on Shaver Creek will start in the spring of 1958 if plans prove practical.

The full support of alumni, through the Penn State Foundation, has been promised the project and already a sum of \$5,000 has been voted for engineering tests and foundation borings. Winterizing of buildings at the Civil Engineering, Mineral Industries, and Forestry camps now in the 6,000-acre University property at Stone Valley will be a part of the project which is expected to cost, at a minimum, \$250,000.

Swimming, boating, fishing, hunting, skiing, and tobogganing are seen as future recreational activities in the area. Research and instruction will continue uninterrupted.

Safety Measures Instituted To Control Waste Disposal

The Special Committee on Waste Disposal, instituted by President Eric A. Walker after the recent fish-killing, has planned two new safety measures:

1. A personal inspection of all potentially hazardous places where chemicals are used on the campus.
2. A panic-action measure intended to alert proper authorities in cases where chemicals are spilled or exploded accidentally.

The inspection will be made by R. Rupert Kountz, professor of sanitary engineering, and technical consultant to the committee. He will confer with deans and department heads to identify hazardous areas.

After the personal visit, a form will be sent on a regular recurring basis to designated representatives in each area as a sort of inventory of what is in store and what has been used. A companion safety measure, not yet detailed, will be instituted to control chemical disposal resulting from breakage, spilling, or explosion.

Marboe Assistant Director Ordnance Research Lab

Robert F. Marboe, associate professor of engineering research, has been appointed assistant director of the Ordnance Laboratory. He will be in charge of all engineering service activities of the Laboratory, including operation of the field stations at Key West, Florida; New Port, Rhode Island, Keyport, Washington, and Black Moshannon.

Marboe joined the Ordnance Lab staff in 1946 and has been associate professor of engineering research and manager of engineering services.

Appointments, Changes Announced By Trustees

Appointment of seven faculty members and changes of status for seven others were made by the Executive Committee of the Board of Trustees at its meeting in December.

Changes of status included:

Dr. William Spackman, Jr., from associate professor of paleobotany to associate professor of paleobotany and director of Coal Research Section;

Robert B. Hewes, from associate professor in charge of Supervisory Extension Training to associate professor of Mineral Industries Extension;

Joseph W. Hunt, from associate professor in charge of mining extension to associate professor in charge of mineral engineering extension;

Dr. Erwin W. Mueller, from professor of physics to research professor of physics;

Dr. Eugen Skudrzyk, from professor of engineering research to professor of engineering research and physics.

Robert F. Marboe, from associate professor of engineering research and manager of the engineering services division, Ordnance Research Laboratory, to associate professor of engineering research and assistant director of the Ordnance Research Laboratory in charge of engineering services.

Paul S. Beaver, assistant professor of management and supervisor of management training, to associate professor of management training.

* * *

Appointments to the faculty included:

Dr. Edwin Cooper, formerly chief fisheries biologist for Wisconsin Conservation Department, as associate professor of zoology;

H. Harold Kelley, of the College of Engineering, University of Colorado, as associate professor of engineering research, Ordnance Research Laboratory.

Dr. Fred C. Snyder, acting assistant director of resident instruction and director of short courses in the College of Agriculture, as assistant director of short courses in agriculture and assistant in agricultural college instruction, General Extension.

Dr. Sadao Hoshino, Tokyo Institute of Technology, research associate in physics;

Dr. Thomas A. Kaplan, University of Michigan, research associate in physics;

Dr. Toshio Mitsui, Hokkaido University, research associate in physics; and

Dr. K. Vedam, Indian Institute of Science, research associate of physics.

Leaves Granted For Seven Faculty

Leaves of absences for seven faculty members were approved at the December meeting of the Board of Trustees:

Dr. Marsh W. White, professor of physics, from Feb. 1 to June 30 to write and to visit physics departments in this country and in Europe;

Dr. William E. Cobb, assistant professor of education, from Nov. 8 to June 30, serving as educational research specialist with the State Superintendent of Public Instruction;

Dr. Donald C. McGarey, professor of education, from Sept. 1 to Jan. 31, to write, study, and visit outstanding American schools;

Dr. John C. Major, professor of English composition, from Feb. 1 to June 30, to conduct research in the field of the American writer in Europe;

Dr. George E. Murphy, professor of education and director of the Reading Clinic, from July 1 to June 30, to travel;

Dr. Henry G. Lew, professor of aeronautical engineering, from Sept. 1 to June 30, for research in the missiles field; and

John W. Holl, research associate in the Ordnance Research Laboratory, from Dec. 1 to June 30, to enroll for graduate study.

Speaker Selected For Commencement Exercises

The Rev. Samuel H. Miller, pastor of the Old Cambridge Baptist Church, Cambridge, Mass., will deliver the Baccalaureate-Commencement address on Sunday, Jan. 27, at 2 p.m. in Recreation Building.

Ski Film Scheduled For Jan. 18 In Schwab

A 105-minute color film titled "Have Skis, Will Travel" will be shown and narrated by the producer, Warren Miller, nationally known skier, author, cartoonist and photographer, under the sponsorship of the Penn State Outing Club on Friday, Jan. 18, at 8:30 p.m. in Schwab Auditorium.

The current film is the seventh produced by Mr. Miller of scenes from skiing action across the country and in Austria and Switzerland. Some of the scenes in his latest pictures were taken at Ligonier, Pa.

Tickets are available now at several merchants in State College and Bellefonte and will be available at the Hetzel Union desk starting Jan. 11.

Student Physical Exams To Be Taken At Home

Students admitted to the University in the future will have physical examinations performed by their local home physicians rather than at the University.

The new procedure, to become effective with the fall semester, 1957, is common in many colleges and universities. For many years, the new students have been given such examinations during Orientation Week on campus.

Benefit Performance At Center Stage

A benefit performance of George Bernard Shaw's "Heartbreak House" will be given tonight and tomorrow night by the Penn State Players at Center Stage in the Extension Conference Center.

Gross receipts from the two performances will be turned over to CARE for distribution among needy theatrical persons made refugees by the fighting in Europe and the Near East.

Tickets are available at the Hetzel Union Building.

Research Grant Made For Studies on Christmas Trees

A grant of \$400 for research in Christmas tree production has been made to the School of Forestry by the Pennsylvania Christmas Tree Growers' Association.

The grant will be used to finance a research project on imported Scotch pines and the publication of findings on control of Pales Weevil, a pest that attacks evergreen trees.

Grants Made For Mineral Industries

Grants by the Shell Oil Co. and the Lithium Corporation of America have been made to establish two fellowships in the College of Mineral Industries.

A \$2,000 grant for a Shell Fellowship in the department of geology has been made as well as a \$2,600 grant by Lithium Corp. for research in the department of ceramic technology.

Films Selected For Preview

The Audio-Visual Aids Library has requested the following films for preview. Faculty members desiring to be notified when prints arrive should call Extension 2051.

"Brown Bear Goes Fishing"
"Diagnosis of Childhood Schizophrenia"
"Still Going Places" (mental health)
"Mr. Finley's Feelings" (mental health)
"Using the Laboratory (Chemistry and Physics)"
"Proud Years" (old age)
"Child in the Middle" (PTA)
"Assignment Safety" four films Sawmills: Storage, Maintenance, Organization
"Sea Shell Animals"
"Understanding Fire"
"The Florida Keys"
"Life Cycle of a Duck"
"One in 20,000" (lung cancer)
"Bibliodynamics"
"The Woodcutter's Wilful Wife"
"Take a Little Peek"
"Split the Ring"
"A Boy, a Bat, and a Baseball"
"Litterbug"

Science Training Program Offered For Teachers

A special training program to improve the competence of high school science teachers will enroll 50 teachers during the 1957-58 academic year.

A grant of \$280,000 from the National Science Foundation will support the program. The grant will aid teachers in providing living expenses, paying fees and books and financing travel to and from the University.

Similar programs have been established at other colleges and universities with the ultimate aim of increasing the number of high school graduates who enter technical fields.

The program will be similar in purpose to that of the six-week Institute for High School Teachers of Science which has been held here for the past two summers.

Choir Program On Mar. 13

Because the tour of Asia by the Westminster Choir has been extended, the date of the Choir's appearance on the State College Concert Association program has been changed from Feb. 20 to Wednesday, Mar. 13. The Choir will be the fifth and final number of the 1956-57 season.

Trustess Approve Plans For Six New Buildings

Architects will proceed with final plans for six new buildings after preliminary plans were approved by the Board of Trustees in December. The final plans will then be submitted for approval to both the University and the General State Authority before bids are requested.

The buildings include: an engineering building along W. College Ave.; a Petroleum Refining Laboratory, south of the Forestry Building; turkey brooder and breeding houses; meats processing laboratory; and swine research facilities.

A report on plans now being prepared for four residence hall units and a dining hall for 1100 men, to be constructed along East Park Ave. was also heard by the trustees.

Polio Injections To Be Given Students

Preventive polio injections will be offered to students this month by the University Health Service at a minimal cost of one dollar per injection. Only those students who have received parental permission will be given the injections.

In view of the fact that the normal three-injection treatment involves a period of eight months, only two inoculations will be given in most cases. The third may have to be administered during the summer months by the family physician.

Limited Public Admittance To Indoor Athletic Events

A bloc of 300 tickets have been made available to the general public for indoor athletic events in Rec Hall. The tickets will be placed on sale an hour and a half before each home event begins at the main ticket window.

The tickets have been set aside for the public with the consent and cooperation of the student body, which has first priority at indoor events because of the restricted capacity of Rec Hall.

For single events, tickets are priced at \$1, and for double events \$1.50.

Three Associate Degree Programs To Be Offered

Two-year associate degree programs in medical technology, productive technology, and surveying technology, to be offered at University centers starting this year were approved by the Board of Trustees in December.

The program in medical technology, to start with the spring semester, will offer a combination of science courses to satisfy requirements of the Board of Registry of Medical technologists.

The productive and surveying technology curriculums, which will include summer session courses, will start with the fall semester, 1957.

Faculty Luncheon Club Steering Committee Named

The Steering Committee for the spring semester activities of the Faculty Luncheon Club, elected in December, will consist of Dr. C. R. Carpenter, professor and head of the department of psychology; Dr. William H. Gray, professor of Latin-American history; the Rev. Luther H. Harshbarger, University chaplain; Valeta R. Hershberger, assistant professor of physical education; and Dr. Dorothy Quiggle, research professor of chemistry and chemical engineering.

Rook Smith Dies

Huber Rook Smith, supervisor of grounds and buildings at Mont Alto, died Dec. 23. Smith had served the school since 1932.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, Jan. 11

Color Film on Ancient Egypt, 7 p.m., Room 10, Sparks.

Digital computer conference, two sessions. Dr. I. H. Tumock, IBM, on "Operations Research and Computers," at 7 p.m., and Dr. Homer Givens, IBM, on "Educational Uses of Digital Computers," at 8:30 p.m., both in Room 110 Electrical Engineering.

Annual meeting of YMCA Physical Education Directors.

Final weekend performances of "Heartbreak House," at Center Stage, 8 p.m., tickets \$1.

Saturday, Jan. 12

Wrestling, versus Lehigh, Rec Hall. Freshmen at 7 p.m., varsity at 8:30 p.m.

Final performance of "Heartbreak House," at Center Stage, 8 p.m., tickets \$1.

Fall semester classes end, 11:50 a.m.

Sunday, Jan. 13

Chapel service, Schwab Auditorium, 10:55 a.m., Dr. James E. Wagner, president, the Evangelical and Reformed Church of Philadelphia.

Monday, Jan. 14

Fall semester examinations begin, 8 a.m.

Computer conference, 7 p.m., 112 Buckhout Lab. Mr. Jack DeVries, head of the computation laboratory at Quehanna, on "Applications of Digital Computers at Curtiss-Wright."

Ice Cream short course for plant men.

Tuesday, Jan. 15

Computer conference, 7 p.m., Buckhout Lab. Dr. Mervin Muller, Princeton University and IBM, on "The Use of Digital Computers in Statistical Analysis."

Wednesday, Jan. 16

Wrestling, versus Maryland, 7 p.m., Rec Hall. Basketball, versus Syracuse, 8:45 p.m., Rec Hall.

Computer conference, final session, 7 p.m., Room 110 Electrical Engineering. Dr. W. G. Bouricius, IBM, on "Future Applications of Digital Computers."

Friday, Jan. 18

Skiing movie "Have Skis, Will Travel," sponsored by the Penn State Outing Club, 8:30 p.m., Schwab Auditorium. A color film by nationally known skier, Warren Miller. Tickets \$9.00.

Exhibit On Penn State Highlights Early 1900s

An exhibit, largely photographic, is currently on display in the show cases in the lobby of Pattee Library, featuring scenes of the campus 50 years ago.

The materials are from the files of the Penn State Collection, and the exhibit was prepared by Mrs. Mary Mairs, curator of the Collection.

Residence Hall Construction To Be Started In Spring

Construction of new residence halls and a dining hall to accommodate 1,144 men students may start this spring, S. K. Hostetter, University treasurer has announced. Architects are completing plans now and bids will be requested soon.

The buildings will be constructed in the area along East Park Ave., between Hort Woods and Shortlidge Road, north of the Agricultural Engineering Building.

Four L-shaped buildings, of contemporary design and to be constructed of brick will make up the residence hall area. The wings will be 140 feet in length and 40 feet wide, with four floors. The dining hall will be two floors high and about 150 feet in length by 110 feet in width.

The project will also include a recreation area, southwest of the buildings, near the new water tower in Hort Woods. Paved basketball, volleyball, handball, and tennis courts will be included in the area, along with facilities for horseshoes and other games. Parking provisions have also been made.

The dining hall will be located along Shortlidge Road, with a service drive from Shortlidge Road. The main entrance faces west and the courtyard formed by the four separate residence halls. Two of the residence halls flank the north and south side of the dining hall while the other two border East Park Ave.

There will be 16 living units in all in the residence halls, with about 70 students in each unit, served by one counsellor. A study lounge is provided for each unit.

In the basement of each residence hall will be a game room with an adjoining kitchenette. There will also be laundry and ironing facilities, as well as facilities for department of housing personnel, mechanical equipment, and trunk storage.

Student rooms will be double rooms. For each student, furniture will include

a large built-in desk with chair, bed, and built-in dresser and wardrobe. Bathrooms in the buildings will have individual shower stalls.

In the lobby of the dining hall will be post office facilities and a general information window. The north wing will contain food storage facilities and a student snack lounge. The south wing will have a recreation room with kitchenette and an open terrace adjoining.

A central kitchen will serve two dining rooms on the second floor, with cafeteria style service being used.

Grades For Graduating Students Due Jan. 23

Grades for all students, including graduate students, who are to receive degrees at the January commencement exercises must be reported to the Records Office, Room 4 Willard Hall, not later than 9 a.m., Wednesday, Jan. 23.

Grades for all other students must be reported within 48 hours after the final examination to the same office. In the case of research grades, the final time is 5:30 p.m., Thursday, Jan. 24. Final exams will end at 5:30 p.m., Tuesday, Jan. 22.

Each instructor is asked to telephone failing grades to the office of the student's dean.

Film on Egypt Tonight

An exceptionally fine color film on Ancient Egypt will be shown this evening at 7 p.m. in Room 10 Sparks. Visitors are invited, although the film is being presented primarily for students in Archaeology 1.

\$17,000 Grant To Support Studies on Radioisotopes

A research grant of \$17,000 to support studies on "Short Half-Life Radioisotopes Employing a Continuous-Flow Activation System" has been awarded by the National Science Foundation to the University.

Dr. William W. Pratt, assistant professor of physics, and Robert G. Cochran, acting director of the Research Reactor, will direct the two-year program.

110 Willard Hall

Ruth I. Kapp

Jan. 11, 1957

Senate Minutes

The University Senate met at 4:10 p.m. on January 3, 1957 in the Assembly Room of the Hetzel Union Building with President Eric A. Walker presiding. The minutes of the December meeting were approved as printed in the Faculty Bulletin for December 14, 1956. One hundred twenty-two senators signed the roll.

COMMUNICATIONS FROM UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: I. W. Cole (C. H. Brown), D. W. Davis (R. O. Byers), F. W. Peikert (J. E. Nicholas), F. G. Brickwedde (F. L. Carnahan), Eugene Ackerman (C. A. Bauer), and A. L. Bortree (G. R. Bubash).

New Senators

A letter from J. R. Rackley, Dean of the College of Education, stated that Lawrence Cobb would fill the unexpired term of W. E. Cobb who is on leave.

A letter from Ben Euwema, Dean of the College of the Liberal Arts, stated that A. B. Sutherland would represent the Department of English Literature while Brice Harris is on leave during the spring semester 1957.

Committee Membership

The secretary read the names of the senators appointed by President Walker to serve on the new COMMITTEE ON THE SENATE. Present Members:

M. E. John, Head, Department of Agricultural Economics and Rural Sociology, Chairman; R. G. Bernreuter, Director, Division of Counseling; Winona L. Morgan, Head, Department of Child Development and Family Relationships; Ben Euwema, Dean, College of the Liberal Arts; H. K. Schilling, Dean, The Graduate School. New Members: L. E. Fouraker, Associate Professor of Economics; J. A. Sauer, Head, Department of Physics; V. E. Neilly, Associate Professor of Engineering Extension; C. L. Hosler, Associate Professor of Meteorology; R. M. Conger, Associate Professor of Physical Education; L. S. Roudiez, Associate Professor of Romance Language; F. A. Hughes, Associate Professor of Agricultural Economics Extension; S. A. King, Assistant Professor of History at DuBois Center.

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, moved the adoption of the report which had been distributed with the agenda as Appendix "A." The motion was seconded and passed. The report is on file in the office of the secretary.

C. C. DiIlio, Chairman of the SENATE COMMITTEE ON SCHOLARSHIPS AND AWARDS, explained the method used by the committee in selecting the recipients of the scholarships and awards. He then moved the ratification of the report which had been distributed at the meeting and which had been approved by President Walker. The motion was seconded and passed. The report, which is on file in the office of the secretary, is as follows:

John W. White Scholarships

Ifft, James Brown '57 Senior \$200 (CHEM)
of Stroudsburg
Bloom, Jacqueline Mae '58 Junior \$150 (SEC ED)
of State College
Brosius, Earl Eugene '59 of Northumberland Sophomore \$100 (A L)

Louise Carnegie Scholarships (\$75 each)

Harrison, Paul Cyril, Jr. '59 (PSY)
of Montrose
Hutchinson, Lawrence Jay '59 (A H)
of Thornton
Kriner, Leon Dale '58 of DuBois (B A)
Manifold, Mary Elizabeth '57 (H EC)
of Camp Hill
McKee, Madge Kathryn '59 of Erie (EL ED)
Miller, Joan Sandra '59 (PSY)
of Highland Park, N.J.
Moldawer, Muriel Eleanor '57 (P M)
of Elkins Park
Montgomery, James Edwin '57 (B A)
of DuBois
Schell, Kerry Franklin '58 (FOR)
of Tower City
Snyder, Donald Eugene '57 (B A)
of Ellsworth
Strickland, Erasmus Hardin, Jr. '58 (P M)
of Columbia, S.C.
Thomas, Eugene Anthony '58 of Erie (B A)

Class of 1922

Memorial Scholarships (\$100 each)

Brutout, Laurel Joy '59 (JOURN)
of Ambridge
Downes, Patricia Louise '59 (SEC ED)
of Springfield
Holobovich, Jeannette Rosalie '58 (A L)
of Eddystone
Hopkins, James Emory '57 of Roslyn (A L)
Jablonski, Lorraine Loretta '59 (H EC)
of West Nanticoke
Kulp, Barbara Ann '57 of Eagleville (H EC)
McGovern, William Philip '57 (B A)
of Philadelphia
Mertz, Mary Helen '58 of Lansdowne (EL ED)
Sassano, Audrey Ann '58 (PH ED)
of Pittsburgh
Thierwechter, Marie Ellen '58 (H EC)
of Lebanon

Helen Wood Morris Scholarships (\$62.50 each)

Koehler, Robert Wallace '58 (B A)
of Pittsburgh
Quarles, Carolyn Mae '59 (H EC)
of Profit, Virginia

Lieutenant Harry Edward Wagner Scholarships (\$100 each)

Frymoyer, Edward Morris '59 (E SC)
of Northumberland
Robbins, James Edward '57 (E E)
of New Cumberland
Schwarz, James Conrad '58 (PSY)
of Harrisburg

Vance C. McCormick Scholarship (\$150)

Kenemuth, John Randall '57 of Van (PHYS)

1920 Class Scholarship Awards (\$100 each)

Anderson, Mary Elizabeth '57 (H EC)
of State College
Dopkin, Joseph Anthony '58 (M E)
of Shenandoah
Ferguson, Donald McRae '57 (PNG E)
of Allison Park
Foreman, Robert Thomas '57 (C E)
of Waverly
Kowalski, Lawrence Thomas '58 (A L)
of Hazleton
Levin, Roger Lee '58 (METAL)
of Glen Richey
Yeschka, Contance Augusta '58 (A L)
of McKees Rocks

The Lawrence J. Ostermayer Scholarships (\$100 each)

Coyle, John Joseph '57 of Souderton (B A)
Detwiler, Ruth Arline '59 of Hatboro (A ED)
Elder, Glen Holl, Jr. '57 (GN AG)
of Centerville
Haugh, Clarence Gene '58 (AG E)
of Madisonburg
Klopp, Donald Jay '58 of Myerstown (M E)
Kremer, Ross Allan '59 (CH E)
of Schuylkill Haven
Pepelko, William Edward '58 (D SC)
of Linesville
Silk, Patricia Lee '58 (EL ED)
of Philadelphia
Simon, Barbara Ann '59 (EL ED)
of Douglassville
Voelker, Richard Marlin '57 (FOR)
of Greenville
Walbert, Joanne Albright '59 (CHEM)
of Emmaus

Class of 1921

Memorial Scholarships (\$200 each)

Fox, Llynnedeth Ann '59 of Harrisburg (A L)
Guzik, Geraldine Ann '58 of Sharon (H EC)
Michael, Norma Eileen '57 of Erie (SEC ED)
Moore, Mary Louise '57 (SEC ED)
of Watontown

Garner-Rothrock

Memorial Scholarship (\$150)

Eberly, Joseph Henry '57 (PHYS)
of State College

Mary Thompson Dale

Memorial Scholarship (\$90)

Smith, Susanne Elizabeth '58 (H EC)
of Bellefonte

Ethel and Bayard D. Kunkle Scholarships (\$250 each)

Galvin, Norman Joseph '57 of Dalton (FOR)
Nelson, Sidney Gene '58 (METAL)
of New Kensington
Schrimper, Ronald Arthur '58 of Erie (AE RS)
Stubblebine, Raymond James '57 (B A)
of West Lawn
Veselovsky, Lawrence Richard '58 (E SC)
of East Vandergrift
Wall, John Vincent '59 (SEC ED)
of Lansdale

Alpha Phi Omega Scholarship (\$200)

Yeatts, Frank Richard '58 (PHYS)
of Altoona

The Espy Scholarship Fund (\$150)
Wilson, George Ronald '60 of Tyrone (C E)

UNFINISHED BUSINESS

H. M. Hipsh, for the SENATE COMMITTEE ON RULES, requested that the recommendation presented by the committee at the December meeting, and the amendment as presented by Mr. Freund, be removed from the table. The motion was seconded and passed. Mr. Hipsh then stated that the committee was in full agreement with the amendment and would like to further change the wording of the recommendation. The recommendation would read:

That the privilege of attending Senate meetings, unless the meeting be designated as a closed session, be granted to representatives of Student Publications.

The motion was seconded. During the discussion, E. R. Fitzgerald moved that the motion be amended by deleting the word "student." The motion was seconded and lost. D. H. McKinley moved an amendment to the motion that the words "for the remaining part of the 1956-1957 academic year" be prefixed to the recommendation. The motion was seconded and passed. The recommendation as amended was passed. The amended recommendation now reads:

For the remaining part of the 1956-1957 academic year the privilege of attending Senate meetings, unless the meeting be designated as a closed session, be granted to representatives of Student Publications.

President Walker stated that he will be unable to attend the Senate meeting on February 7, and asked if the group would consider changing the date of the meeting to February 5. Thomas Wartik moved that the February meeting of the Senate be changed to February 5. The motion was seconded and passed.

The next regular meeting of the Senate will be on February 5, 1957 with the agenda being distributed on January 24, 1957.

The meeting adjourned at 4:35 p.m.

C. O. Williams
Secretary

PLEASE NOTE THAT THE FEBRUARY MEETING WILL BE HELD IN ROOM 121 SPARKS BLDG. BECAUSE OF CHANGE IN MEETING DATE.

Three Grants Made By DuPont Company

Grants for an assistantship in chemistry, a summer research grant also in chemistry, and a post-graduate fellowship in mechanical engineering for the next academic year are the University's share in the million-dollar grant program of the DuPont Company, to aid 122 universities and colleges.

DuPont officials point out that grants for the next year represent an increase of \$100,000 over those of the current year, with nearly all of the increase and more than half of the entire program for the improvement of teaching in universities, colleges, and high schools.

One grant to Penn State provides \$2,400 for an unmarried assistant in chemistry, or \$3,000 for a married assistant, plus \$500 to the University and payment of tuition and fees.

A second grant of \$1,500 has been made for a younger staff member of the department of chemistry to advance his own scientific development by engaging in research work or other appropriate activity in the summer. The staff member will receive an amount equal to two months of his regular salary and the balance will support his program.

The third grant will support a post-graduate fellowship in mechanical engineering. A sum of \$1,500 will be provided, except for a first-year student, who will receive \$1200. An additional allowance of \$600 will be made for a married student. The University will receive \$1,200 and tuition and educational fees will be paid.

Dr. Walker Says Community Colleges To Train Students First Two Years

STATE and community-sponsored schools will have to bear the brunt of educating the greatly increased number of young men and women who will be seeking admission to colleges and universities in 1970, President Eric A. Walker told a large audience at groundbreaking ceremonies for a \$555,000 building at the Altoona Center last Saturday.

Pointing out that long-range plans of the privately endowed colleges and universities indicate that they do not expect to increase enrollments significantly, Dr. Walker said, "they cannot afford to do so. Increased tuition and fees cannot keep pace with the steady shrinkage of endowments, the necessary increases in salaries, and the rising cost of equipment, supplies and construction."

"It is equally clear that the land-grant and state-supported colleges and universities will not be able to meet the challenge solely through on-campus, resident instruction. . . . It appears quite likely, in fact, that within a few years the community schools will have to accept almost full responsibility for the first two years of college training, permitting the central campuses to concentrate upon the upper-division and graduate work that requires more elaborate and expensive laboratories and equipment."

Complimenting the people of Altoona on their work in raising \$405,000 to make the new building possible, Dr. Walker said:

"It was you people who recognized the need of expanded community facilities for education beyond high school and who gave so generously of your time, energy, and money to do something about it. . . . It is truly a community investment; I am informed that the largest single gift was for \$15,000 and that many of the donations were for very small sums.

"As you all know, the credit for spearheading this drive is due the Advisory Board of the Altoona Center, a group with a distinguished 18-year history of community service. You will recall that it was this group that helped raise the money to buy Ivyside Park as the site for the Center."

Terming the new building as "an investment in the future," Dr. Walker said that:

"An educated, well-informed public has always been a first requirement for the successful operation of our democratic form of government and our economic system of free enterprise. If we are to preserve them, we cannot — must not — shirk the responsibility of educating our youth."

"The critical need today," said Dr. Walker, "is not materials or energy — we already have them or know that we can develop them when they are needed.

"The one ingredient that is really critical is brainpower. This shift is shown dramatically by the ratio of engineers and scientists to factory workers; in 1900, industry employed one engineer for each 300 workers; today the ratio is 50 to 1, and many industries find it necessary to hire one engineer for each ten workers.

"The seriousness of the shortage of engineers and scientists has been well publicized by the desperate search for talent being carried out by industry. Less well publicized but no less serious is the shortage in almost all other professional fields. The supply of teachers, for instance, is falling behind demand at the fearful rate of about 60,000 a year.

"Because of this shift in priorities and needs, business and industry are going to be drawn more and more to those cities and communities that have the best chance of providing a continuing supply of brainpower: engineers and scientists, technicians, and secretaries, doctors and nurses, accountants and business executives, teachers, city managers, and recreation directors."

Pointing out the effects which take place in communities where higher educational facilities are available, Dr. Walker used State College and Boulder, Colo., as examples. Citing that in the last five years the latter had seen the establishment of two large government laboratories "because of the availability of the kind of brainpower they need for their work. Neither of these locations (State College and Boulder) is on main transportation routes or is near an important source of material or energy.

"I strongly suspect that the Altoona Center has been a primary factor in the recent growth and diversification of the economy of the Altoona area."

Dr. Walker pointed out that the two-year associate degree program, pioneered by the Altoona Center under Robert Eiche, administrative head of the Center, will help to supply the necessary aides capable of relieving the more highly trained professional people of many of their routine assignments, to conserve brainpower.

The University, Dr. Walker concluded, is proud to have a share in the development at the Altoona Center — "an investment that will pay tremendous dividends in the future of Altoona youth, of the Altoona economy, of every facet of the life in the Altoona area."

Report from the Registrar

WITHDRAWALS (Campus)

- 3 Bair, Carl Michael, DIR, Nov. 28
- 3 Beschoner, Eleanor Marie, HEC, Dec. 6
- 3 Boscia, Carl A., DIR, Dec. 5
- 1 Brock, Margaret Keith, ELED, Nov. 16
- 5 Brougham, George P., A&L, Dec. 3
- 3 Bryant, John Arthur, BA, Nov. 30
- 3 Burgeson, Frederick A., DIR, Oct. 10
- 1 Colegrove, John Neil, IE, Dec. 12
- 3 Corini, Joseph William, AeroE, Dec. 5
- 1 Davis, George Kenneth, Ed, Nov. 15
- 4 Eldridge, Adelbert E., CE, Dec. 6
- 1 Funkhouser, Lewis Frederick, EE, Dec. 6
- 8 Glenn, Frank H., DIR, Nov. 30
- 1 Halsey, Charles E., ChE, Dec. 3
- Gr Harbolis, Soter Soter, Oct. 31
- 1 Hayes, William Ryan, EE, Dec. 4
- 5 Holman, III, Nicholas H., DIR, Dec. 10
- 5 Howe, Paul T., AgEng, Dec. 3
- Gr Kegerise, Harry Lee, ME, Nov. 28
- 3 Lark, John Weiser, DIR, Nov. 10
- 1 McHale, Peter John, A&L, Nov. 21
- 3 McMahon, Robert G., DIR, Nov. 26
- 4 Maurer, Robert George, PhEd, Nov. 29
- 6 Megahan, Robert F., DIR, Dec. 3
- 3 Miller, Elizabeth Hewitt, ELED, Dec. 12
- 7 Moyer, Dean Ronald, DIR, Nov. 29
- 5 Noll, James E., EE, Dec. 15
- 5 O'Donnell, Terrence J., BA, Dec. 15
- Sp Palmer, Shirley S., Nov. 19
- 5 Panik, Alexander Thomas, DIR, Dec. 12
- 5 Prickett, Robert Cavett, DIR, Dec. 19
- 7 Radakovich, Daniel Leonard, BA, Dec. 14
- 3 Rosenberger, Otto C., AeroE, Nov. 30
- 3 Rudy, Ramon E., For, Dec. 12
- Gr Ruof, Richard A., Nov. 30
- Gr Schaeffer, Gene Thomas, Phys, Dec. 5
- 1 Schraf, John Robert, A&L, Dec. 11
- 2 Sherman, Karl K., Jr., ChE, Dec. 4
- 1 Smith, Eugene William, Jr., ME, Nov. 28
- 5 Stack, Ronald D., BA, Dec. 13
- 1 Stern, Sally N., BA, Dec. 14
- Gr Stone, Richard Cary, Oct. 20
- Gr Strunk, Paul Waner, EE, Nov. 9
- 3 Sukenik, Hillel H., Ch, Dec. 18
- 5 Swyers, Duke Wellington, A&L, Dec. 6
- 5 Walclawski, Bernard J., Phys, Nov. 30
- 1 Warehime, John Alan, Hort, Dec. 17
- 1 Weidner, Thelma Ruth, Psy, Dec. 1
- 5 Westover, Robert M. P., PhEd, Dec. 4

WITHDRAWALS

(University Centers)

Bachelor Degree Program

- 1 Buecker, Francis B., ME, Nov. 26
- 1 Gill, John N., Psy, Oct. 1
- 1 Koch, Robert Harlan, BA, Dec. 3
- 1 Matzko, Mike, LMR, Nov. 3
- 1 Michener, Philip Burce, Sci, Nov. 28
- 1 Scacco, Guido Gordon, ChE, Dec. 10
- 1 Weiland, Ronald E., CE, Nov. 29
- 1 Willis, Gerald, ME, Nov. 24

Associate Degree Program

- 1 Berkow, Phyllis B., 2yrSec, Nov. 20
- 1 Black, Beverly Ann, 2yrSec, Dec. 4
- 1 Davis, James Leo, DDT, Nov. 16
- 1 Hansarick, John Stephen, ET, Nov. 3
- 1 Johnson, Glenn E., ET, Nov. 9
- 1 Konzman, Ludwig Robert, ET, Nov. 6
- 1 Papas, George P., DDT, Dec. 1
- 1 Platon, Albert J., DDT, Dec. 1
- 1 Popeck, John Joseph, ET, Nov. 27
- 1 Pushnar, Leonard E., ET, Dec. 7
- 1 Regits, Alfied A., ET, Nov. 20
- 1 Stiffler, Robert Edward, DDT, Nov. 2

Mont Alto

- 1 McCray, Edward Dean, For, Dec. 10
- 1 Tiger, Charles, For, Dec. 6

The following reasons were given for withdrawing: Personal 42, Financial 7, Scholastic 8, Illness 10, and Military Service 3 and Other 1.

Change of Names

- Fee, Miriam Olander from Olander, Miriam Jean
Goss, Janice Archibald from Archibald, Janice Pauline
Hoke, Nancy Jane from Hill, Nancy Jane
Martin, Barbara Bursa from Bursa, Barbara June
Miller, Cheryl Davis, from Davis, Cheryl Joanne
Shaw, Margaret Remley from Remley, Margaret Anne

Items of Interest

Theodore S. Spicer, professor of fuel technology, has been appointed general chairman of the 20th Annual Joint Solids Fuels Conference to be held in Quebec City, Canada, on Oct. 10 and 11. Dr. H. Beecher Charnbury, head of the department of mineral preparation, will serve as co-chairman, representing the American Institute of Mining Engineers.

★ ★ ★

Viktor Lowenfeld, head of the art education department, recently contributed an article on "Children Communicate through the Arts" to the publication "Childhood Education." The article deals with an analysis of the various kinds of communication children use at various levels of their development. He is also the author of an article titled "The Meaning of Creative Expression for the Child" included in a conference report published by the Bank Street College of Education of New York.

★ ★ ★

Dr. George M. Lott, University psychiatrist, was a discussion leader and participated in a Pennsylvania Strategy Conference on Christian Family Life at Camp Hill in December.

★ ★ ★

Dr. Wolfgang E. Meyer, professor of engineering research, has been appointed to the Joint Subcommittee on Human Tolerance for Shock and Vibration of the Society of Automotive Engineers.

★ ★ ★

Dr. John A. Mourant, professor of philosophy, contributed articles appearing in recent issues of two publications and read a paper on "The Human Context of Ethics" at the annual meeting of the American Philosophical Association meeting at the University of Pennsylvania. One article appeared in an issue of the "Giornale di Metafisica" in response to an international referendum on the question "Is Metaphysics Possible?" His other article appears in the current issue of "Aquinas and Theology."

★ ★ ★

Dr. Ruth L. Pike, associate professor of foods and nutrition, has been elected to membership in the New York Academy of Sciences.

★ ★ ★

Dr. Francis A. Babione, associate professor of marketing, talked on "Improving Teaching Efficiency" at the annual meetings of the American Marketing Association in Cleveland recently. He is a member of the subcommittee on the teaching of general marketing which will conduct a special program on the problems of the future supply of marketing teachers.

Dr. William E. Ranz, professor of engineering research, attended a symposium of the Industrial and Engineering Division of the American Chemical Society at Purdue University recently.

★ ★ ★

Dr. Brice Harris, professor and head of the department of English literature, has been elected first vice-president of the National Council of Teachers of English. He was instrumental in forming the Pennsylvania Council of Teachers of English last fall and was one of three temporary directors chosen for the new organization.

★ ★ ★

Dr. Erwin W. Mueller, research professor of physics, presented a lecture before the Brookhaven National Laboratory this week on the subject "Atomic Structures of Surfaces."

★ ★ ★

Dr. Albert Christ-Janer, director of the School of the Arts, presented a paper at the joint dinner meeting of the Cleveland chapter of the American Institute of Architects and the Cleveland Engineering Society this week in Cleveland. His subject dealt with new arts expressions.

University Has Role In State Farm Show

Penn State will have a major part in the annual State Farm Show starting in Harrisburg tomorrow and continuing through Jan. 18.

An exhibit featuring research, resident instruction, and extension has been prepared and many faculty members will take part in the week-long program.

Dr. E. J. Anderson, professor of beekeeping, will speak to the State Beekeepers' Association, to report on new uses for honey in candy. He will also discuss research on pollination.

William C. Bramble, head of the School of Forestry, will report on research to the Pennsylvania Christmas Tree Growers' Association.

J. L. McCartney, professor of pomology, will discuss research in nut culture before the Pennsylvania Nut Growers' Association.

Dr. F. G. Merkle, professor of soil technology, will speak on potato fertilization in the State before the Pennsylvania Cooperative Potato Growers' Association meeting.

Dr. Henry R. Fortmann, associate professor of agronomy, will discuss "Reliability of Present Day Forage Crop Seed," before the Pennsylvania Crop Improvement Association.

The instruction exhibit will demonstrate the need for more graduates in agriculture, pointing out that job offers for agriculture students exceed 16,000 each year, the various colleges graduate only 8500.

The Extension exhibit will feature 4-H club opportunities and the need for safety from fires and poisons.

Dr. Spence Receives Award For Manuscript In History

Dr. Clark C. Spence, instructor in history, has been awarded the honorable mention Beveridge Award of the American Historical Society.

The award, established by the late Senator Albert J. Beveridge, of Indiana, is presented annually for an outstanding manuscript in the field of Latin American or American history.

The first prize carries an award of \$1,000 while the honorable mention provides for publication of the manuscript.

In 1949, Dr. Neil A. McNall, associate professor of American history, received the honorable mention award for his dissertation, published in 1952 by the University of Pennsylvania Press as "An Agricultural History of the Genesee Valley, 1790-1860." The dissertation was done in partial fulfillment of requirements for a doctor of philosophy degree at Cornell University.

The paper by Dr. Spence is titled, "English Investments in the American Mining Frontier," and is concerned with the period, 1860-1900. The manuscript was a revision of the dissertation that Dr. Spence had submitted for his doctor of philosophy degree at the University of Minnesota.

Much of the material used in the paper was obtained in England where Dr. Spence spent the academic year, 1953-54, on a Fulbright grant. Material also was gathered in the Western States.

Dr. Spence is a graduate of the University of Colorado where he received both his bachelor of arts and master of arts degrees in history. He was appointed to the Penn State faculty in 1955 and his primary interest is in the history of the American frontier.

Computer Conference Continues To Jan. 16

Attendance at early sessions of the conference for faculty and staff members on digital computers was excellent and is expected to continue so through the final session on Jan. 16.

This evening, in Room 110 Electrical Engineering, two members of the International Business Machines Corp., Drs. I. H. Tumock and Homer Givens, will talk. Dr. Tumock's subject is "Operations Research and Computers," and Dr. Givens' "Educational Uses of Digital Computers." The talks begin at 7 p.m.

Monday evening, Jan. 14, at 7 p.m. in 112 Buckhout Lab., Jack De Vries, head of the computation laboratory at Quehanna, will talk on applications of digital computers at Curtiss-Wright.

Tuesday, Jan. 15, Dr. Mervin Muller, of Princeton University and IBM, will talk on "The Use of Digital Computers in Statistical Analysis" at 7 p.m. in 112 Buckhout Lab.

The final session will find Dr. W. G. Bouricius, manager of the computing center of the IBM research organization, speaking on "Future Applications of Digital Computers" at 7 p.m. in 110 Electrical Engineering.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, Jan. 18

Skiing movie, "Have Skis, Will Travel," sponsored by Penn State Outing Club, 8:30 p.m., Schwab Auditorium. Tickets \$.90.

Sunday, Jan. 20

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. E. H. Freund, associate professor of philosophy.

Organ recital by George Ceiga, 4 p.m., Chapel.

Tuesday, Jan. 22

Fall semester examinations end, 5:30 p.m. Lecture by Forman S. Acton, head of analysis group, Forrestal Laboratory, Princeton University, sponsored by local chapters of SIAM and ASA, 8 p.m., 316 Sparks.

Sunday, Jan. 27

Combined Baccalaureate and Commencement exercises, 2 p.m., Rec Hall.

Monday, Jan. 28

Faculty meeting, College of Physical Education and Athletics, 7 p.m., Room 241, Recreation Building.

Wednesday, Jan. 30

Spring semester registration begins.

Saturday, Feb. 2

Wrestling, versus Ohio State, 7 p.m.

Gymnastics, versus West Virginia, 8:45 p.m.

Miss Wittman Again Chairs Committee on German

Nora E. Wittman, assistant professor of German, has accepted for the third year the national chairmanship of the committee on foreign languages in elementary schools of the American Association of Teachers of German.

Miss Wittman met with key members of her committee at the annual December meetings of the association to discuss past achievements and future procedures in the promotion of the study of German in the nation's elementary schools.

Considerable progress was reported by the three subcommittees of the organization in teacher training, courses of study and syllabus, and promotions. More colleges and universities, it was reported, are offering courses and summer language workshops for the training of German teachers.

Art Works Exhibited At Hetzel Union Building

An exhibition of water colors by Douglas Lockwood, an alumnus of the University, and sculpture and drawings by Mary Rubinstein, part-time instructor in art, is now on view at the Hetzel Union Building and will continue until Jan. 26.

✓ Mrs. Rubinstein, who has degrees from the University of Texas and the State University of Iowa, studied at the Museum of Fine Arts, Houston, Texas, and the Art Students League in New York. She has exhibited in the Museum of Houston, the Texas General Exhibition, Des Moines Art Center, Walker Institute of Minneapolis, Denver Southwest Exhibit, Art Students League, Society of Sculptors in Pittsburgh, the Pennsylvania Academy of Fine Arts, the Newport, R.I., Art Association, New York City Center, Provincetown Art Association, and at many other centers.

✓ Lockwood, who earned his bachelor's and master's degrees from Penn State, had one-man shows at the Willard Gallery, New York, in 1949 and 1954 and has exhibited at the Brooklyn Museum, Chicago Art Institute, and at galleries in Columbus, Ohio, Blue Hill, Me., Philadelphia, and Wilmington, Del. He studied at the University of Michigan, Mural Atelier of Beaux Arts, New York, Chicago Academy of Fine Arts, New York School of Fine and Applied Art, and was artist-in-residence at Taliesin for the Frank Lloyd Wright Foundation from 1945-47.

The exhibition on campus includes 15 water colors by Lockwood and 18 works of sculpture and 14 drawings by Mrs. Rubinstein.

Senate To Meet

The University Senate will meet on Tuesday, Feb. 5, at 4:10 p.m. in Room 121, Sparks Building. Members of the Senate are asked to make special note of the change of date and place of meeting.

Commencement Exercises At 2 p.m. Sunday, Jan. 27

Faculty members and members of the president's party who plan to be part of the procession at the combined baccalaureate-commencement exercises on Jan. 27 will meet for the procession at 1:40 p.m. under the south balcony of Recreation Building where the ceremonies will be held, at 2 p.m. Students will proceed to their assigned places directly without a procession.

The Rev. Samuel H. Miller, Old Cambridge Church, Cambridge, Mass., will be the commencement speaker.

Dr. Walker Elected To College Association Post

President Eric A. Walker was elected a member of the Commission on Academic Freedom and Academic Tenure of the Association of American Colleges at the Organization's 43rd meeting last week.

The annual sessions of the Association were attended by presidents and other high officers from 650 colleges in 45 states. The general theme of the meeting was "Education of Free Men in A Free Society for a Free World."

Research Grant Made For Mathematics Studies

A grant to support research in "Problems of Mathematical Logic" to be conducted under the direction of Dr. Haskell B. Curry, professor of mathematics, has been received from the National Science Foundation.

The grant was made for a period of two years and is valued at \$18,200. It will assist research by Dr. Curry and by Drs. William Craig and Paul Gilmore, both assistant professors of mathematics.

Dr. Curry will continue research in the field of "Combinatory Logic" to work on the second volume of a two-volume work on the subject.

Musser's Research Known Nationwide In Turf Work

IF the grass in your neighbor's yard looks just a little greener than does yours, it may well be that he is a disciple, if unknowingly, of Dr. H. B. Musser, professor of agronomy.

For to turf management experts in Pennsylvania, and in fact the nation, Dr. Musser is recognized as a leader in their field and they look to him for answers to their perplexing problems. Seedsmen, landscape architects, golf course supervisors — in short anyone concerned about establishing and maintaining a good turf — have all learned to rely on "Burt" Musser.

When, last year, the master of ceremonies of a nationally televised show plugged for a new "cureall" grass, called zoysia, Dr. Musser personally received 250 letters all asking, "What about this new grass?" (The answer, incidentally, is that zoysia has application in some areas, but not in colder climates.)

Dr. Musser's speaking schedule includes turf conferences all over the country and even in Canada, so much reliance is being put on his experience and judgment. He will be in Maryland, New Jersey, Kentucky, and at Guelph, Ontario, in the next couple months, in addition to leading the annual spring turf conference on campus in February.

Undoubtedly one of the chief reasons for Dr. Musser's status in the field of turf management has been his constant battle against the "hokum" in the turf grass business. Twenty years ago, establishing and maintaining a sound lawn, golf course fairway or green, or turf for any purpose, was an art. Today is nearly a science, made so by sound, fundamental research which has been carried on at Penn State. The turf plots on the University farms constitute one of the largest and most useful research areas in the country in turf grasses, and Dr. Musser has been associated with the program since its inception in 1930.

Not one to accept claims and pass them along unless he has research to back him up (if not his own, then that of someone whose studies he knows he can rely on), Dr. Musser thoroughly investigated many strains of grasses, studied fertilizers and their proper application, run tests on soil conditioning methods, and aided the botany and plant pathology scientists in research on disease control.

"We know a great deal more about turf management than we did 20 years ago," Dr. Musser says, "but this is still an infant field. We have a lot to learn." It is little wonder that he refuses to fall for the wide claims made for some grasses, fertilizers, machinery and methods.

To illustrate the complexity of research in this field, the two grass strains

Dr. Musser developed (and which are now being produced commercially) called Pennlawn (a creeping red fescue grass) and Penncross (a bent grass which can be successfully seeded), he points out that the original studies started in 1937. In other words, it took nearly 20 years of research to come up with these two grasses, which are improvements over previous strains but which are not advertised or considered "curealls." They both have application, but neither will solve all the problems even in the uses for which they are designed.

In only one respect does Dr. Musser make any sweeping claim. He says there is no soil, at least in Pennsylvania, on which cannot be developed a good turf if the proper management practices are used. He gave some evidence of his contention during the war when, as a colonel in the Air Force, he supervised the establishment and management program of a half-million acres of land at air fields in this country under growing and use conditions which were far from ideal.

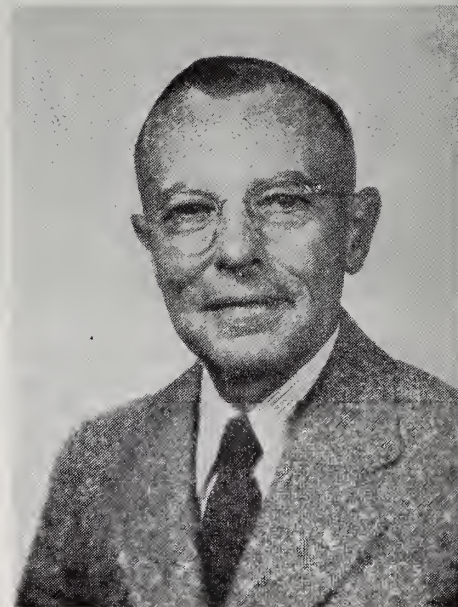
Of late, Dr. Musser has taken considerable interest in the development of athletic fields because he has seen the unhappy results of poorly installed and maintained areas. Many new schools build an athletic field before the school building is completed. Improperly installed, they are costly to manage and sometimes result in conditions which lead to many injuries.

He has also taken a great interest in education of turf management people and hopes that eventually the sound practices now known will filter down to the home owner or those who advise them.

"It is difficult to estimate," Dr. Musser says, "how much money is wasted by home owners on seed, fertilizer and water, just because they aren't getting good advice. Chemical weed killers, for example, are a wonderful and necessary addition to turf management tools, but the best weapon against weed infestation is a healthy, vigorous growth which keeps weeds out.

"We can also save money by more judicious use of seed. You won't solve your problem of a thin lawn by sprinkling an expensive seed mixture over the lawn. Fertilization and liming, soil conditioning, and watering will bring more useful results."

Much of the backing for research in turf grasses and management has come from the U. S. Golf Association and from golf people generally because theirs is a costly field and they cannot afford to make serious mistakes. And, although the problems of maintaining a golf course are more severe than are



DR. H. B. MUSSER
His Book Is a Bible

those of managing home lawns, the principles are much the same.

"The aim of any program of turf management," Dr. Musser points out, "is to obtain a healthy, vigorous sod which will stand up to the conditions it is used under, at the lowest cost. While we have been developing such turfs, we have also introduced new problems. For example, it is possible to obtain such a vigorous growth that disease will develop more readily or that the grass will become matted and require special treatment."

Recognizing that the home owner will not spend a great amount of money or time on turf management, Dr. Musser is continually seeking simpler and cheaper methods. Fertilizer simplification is one development which has been aided by his research. Today, following practices he recommends, the home owner can make one application of synthetic nitrogen fertilizers at the start of the season and not be concerned until fall, where formerly fertilization every couple months was advisable.

Dr. Musser's book, "Turf Management" (now a bible to those in the field) was published by the U. S. Golf Association in 1950. Intended primarily for those involved in golf course work, it is nevertheless a valuable reference for anyone interested in better lawn areas. If those who wrote to him after the television program boosting zoysia grass had read his book, there would have been no need for them to write. Six years before the program, he carefully indexed the rightful application of the "cureall" grass.

But then Burt Musser is so far ahead of the field generally that it will take a number of years before there will be no need for him to travel thousands of miles yearly to tell his story. And he'll likely continue his leadership for such a period, anyhow, that he'll always be looked to when turf problems arise — by his neighbors, or by seedgrowers in Washington or Oregon.

Items of Interest

John B. Washko, professor of agronomy, will appear on the program of the New Jersey Farmers' Week, Jan. 21 to 26, at Trenton, N.J. He will speak on "Crop Species Selection and Their Management on Individual Farms."

* * *

Dr. John A. Mourant, professor of philosophy, has contributed an article entitled "Idea Europea e Concetto di Nazione" to the Italian journal, *Humanitas*.

* * *

Dr. Jessie R. Bernard, professor of sociology, was termed an advocate of "sociology of espionage and subversion" by a Soviet writer for "Soviet Survey," a publication of the Congress for Cultural Freedom, London, England.

* * *

Dr. Clifton A. Anderson, professor of industrial engineering, presented a paper on "Measures of Dispersion, to a recent section meeting of the Society for Quality Control.

* * *

Robert F. Gentry, associate professor of veterinary science, spoke recently at a conference for veterinarians at Cornell University.

* * *

Philip F. Hallock, professor of architecture, was named as an executive member of the board of the Central Pennsylvania Chapter of the American Institute of Architects. He recently completed his term as president.

* * *

Dr. Hugh H. Chapman, Jr., assistant professor of Romance languages, was elected chairman of a section of the Modern Language Association of America at its annual meeting in Washington, D.C.

* * *

Dr. Katherine Fisher, associate professor of foods and nutrition, has been elected to the New York Academy of Sciences.

Contracts Awarded For Low Temperature Studies

Dr. Wolfgang E. Meyer, professor of engineering research will be in charge of studies of engine low temperature problems under two two-year contracts totalling \$86,371.60 awarded by the Engineering Research and Development Laboratories, Fort Belvoir, Va. Julius J. DeCarolus, associate professor of engineering research, will be project engineer.

The project will include studies of processes and effects of heating engines prior to starting at temperatures as low as minus 65 deg. F., and problems of starting diesel engines.

Much of the research will be carried out in the cold rooms of the department of engineering research.

DIRECTORY CHANGES

The following corrections and additions to the Faculty Directory have been received. It is suggested that this list be clipped and pasted in the Directory for handy reference, or that corrections be noted in the Directory.

Additions

- 767 *Royer, Alice A., 2 Willard Hall
241 S. Atherton AD 7-2811
2346 *Lott, George B., Ord Res Lab
219 E. Prospect Ave. AD 7-3806
2236 *Muschlitz, W. L., Assoc Prof Eng Res
Eng Anex Bldg, Whitehall Rd, AD 7-4870

Telephone Corrections

- On Campus
AD 7-7647 *Lassman, Marion L. (page 28)
609 Tukey, L. D. (page 51)
Home Phones
(page 28) *Lassman, Marion L. HO 6-6327
(page 39) Piatnik, Marcella AD 8-6952
(page 24) *Howell, B. F. Jr. AD 7-2558
(page 10) Collins, Barbara AD 8-9629

Address Changes

- (page 39) Piatnik, Marcella 140 S. Pugh
(page 38) Park, W. H. 537 Kemmerer Rd
(page 26) Kendrick, Earnestine
222 W. College
(page 28) Kumar, Sudhir
128 McAllister AD 7-4667

Departmental Listings

- (page 66) Mental Hygiene Clinic
Disp 2466, if no answer, 2461
(page 58) add the following immediately after
Agr. Econ and Rur Soc Dept (John) 704
Agr Marketing 672
Farm Mgt 677
Staff 674
Agr Ed Dept (Brunner) 661
Agr Eng Dept (Peikert) 711
Agr Eng Ext 671
Tractor Lab 717
Agr Exp Station (Farrell) 603, (Black) 610
Photography (Beese) 605
Publications (Ferguson) 726, 610
Statistician (Bennett) 704
Agr & Home Ec Ext Dept (Albrecht) 758

Spelling Corrections

- (page 42) Rohrbeck, E H Prof Ag Ext
(page 28) Krauss, F B, Prof Lat

Report from the Registrar

WITHDRAWALS (Campus)

- 3 Adams, Robert James, DIR, Jan. 3
3 Benak, James L., ChE, Dec. 20
5 Bernard, John Louis, BA, Jan. 3
1 Betty, Bruce R., BA, Dec. 19
1 Carabello, John R., A&L, Dec. 19
3 Collins, Porter Clarkson, DIR, Dec. 14
Gr Eve, John Robert, Zool, Dec. 22
7 Gladstone, Mark B., BA, Dec. 22
4 Guthrie, James Robert, DIR, Jan. 4
5 Kim, Ha Ju, Sci, Dec. 7
1 Martsoff, Ramon Burce, For, Jan. 2
3 Mikita, Donald Joseph, Agro, Dec. 22
Gr Round, Roger R., Dec. 21
2 Sieg, III, William Philip, A&L, Nov. 25

WITHDRAWALS (University Centers)

- Bachelor Degree Program
1 Blake, Robert Edward, EE, Dec. 20
1 McCahon, Jean W., A&L, Dec. 15
1 Smith, Richard S., EE, Dec. 7
1 White, John Cyril, HA, Dec. 21
Associate Degree Program
1 Collins, William Timothy, ET, Dec. 21
1 Coyle, James William, DT, Dec. 5
1 Moyer, William James, ET, Dec. 21
1 Orris, James J., DT, Nov. 28
1 Prifer, John Frederick, ET, Nov. 5

The following reasons were given for withdrawing: Personal 14, Scholastic 4, Financial 1, Employment 1, Transferring 1, Illness 2.

Change of Names

- Eichenmiller, Mary Hickok from Hickok, Mary Lou
Freyler, Barbara Meyer from Meyer, Barbara
Hollenbaugh, Jo Ann from Sharp, Jo Ann
McConnell, Anette Claire from Holtz, Annette Claire
Meixsell, Anne Bruch from Bruch, Anne

Lions Den, Terrace Room To Close Between Semesters

The Lions Den and Terrace Room of the Hetzel Union Building will close at 6:45 p.m., Tuesday, Jan. 22. The Lions Den will reopen at 7:15 a.m., and the Terrace Room at 11:30 a.m. on Tuesday, Jan. 29. The other areas of the HUB will be open from 8 to 5 p.m. in the period between semesters.

Library Hours Announced

The Pattee Library will observe the following hours between semesters:

- Tuesday, Jan. 22 — 7:50 a.m. to 5 p.m.
Wednesday, Thursday and Friday, Jan. 23-25 — 9 a.m. to 12 noon.
Saturday, Jan. 26 — 9 a.m. to 12 noon.
Sunday, Jan. 27 — closed.
Monday, Jan. 28 to Friday, Feb. 1 — 9 a.m. to 5 p.m.
Saturday, Feb. 2 — 9 a.m. to 12 noon.
Sunday, Feb. 3 — closed.

Travel Requests Should Be Made In Writing

Requests for the services of the Transportation Division during the month of December involved more than 300 telephone calls. To give more efficient service, Miss M. Josephine Groesbeck, director of the division, therefore requests that future inquiries for service be made in writing, as far in advance as possible.

The following information is requested: name and department, destination with stopovers, date and approximate time of departure, when the traveler must arrive at destination, date and time leaving to return home, travel preference (air, train, bus, University car, type of reservation desired, hotel reservations (single, double, or twin), whether the trip is tax exempt.

Ice Skating Lessons Now Being Offered

Ice skating lessons for adults and children are now being offered by the College of Physical Education and athletics at the University rink.

Mrs. Marilyn Tammen, an outstanding figure skater who came to the campus when her husband recently joined the faculty, is offering the lessons in groups or privately on Monday, Wednesday and Friday from 3:30 to 5 p.m. and on Saturday from 9 to 11:30 a.m. and 1 to 5 p.m. Evening lessons may be arranged upon request. University fees for the lessons are \$1.50 for a half-hour period in groups and \$3.50 for half-hour private lessons.

Mrs. Tammen is a former national junior pair champion and in 1947 was Northern California and California pair champion. She was choreographer for several ice skating club shows at her home in Sacramento, Calif., and served as instructor for members of her club.

She has also performed with a skating group at pop concerts with the San Francisco Symphony in Swan Lake, Oklahoma, Nut Cracker Suite and other numbers.

Phi Gamma Mu Seeks Local Members

Epsilon chapter of Pi Gamma Mu, national social sciences honorary society, is seeking to learn of fraternity members recently arrived on campus or others not already affiliated with the chapter. They should contact the secretary, Elizabeth C. Wescott, in the reference department of the Pattee Library.

Statistical Work Lecture To Be Held Tues., Jan. 22

Mr. Forman S. Acton, head of the analysis group of Forrestal Laboratory, Princeton University, will lecture before local chapters of the Society of Industrial and Applied Mathematics and the American Statistical Association on the subject of "Regression Analysis" at 8 p.m., Tuesday, Jan. 22, in Room 316, Sparks Building.

Faculty Women's Club Holds Potluck Supper

The Faculty Women's Club will hold a pot-luck supper for members and escorts only at the Extension Conference Center on Tuesday, Jan. 29, at 6 p.m. Coffee and dessert will be furnished. Members will be telephoned for their reservations.

Victor Beede Dies

Victor A. Beede, professor emeritus of forest management and former head of the School of Forestry, died at his home in State College on Jan. 13. He was 70 years old.

Mr. Beede was head of the department of forestry from 1937 until his retirement in 1952. He had come to Penn State as instructor in 1931.

Amateur Radio Station Contacts Little America

The University's amateur radio station W3YA, with Gilbert L. Crossley, assistant professor of electrical engineering, in charge, has contacted Operation Deep Freeze at the South Pole and passed message traffic. Regular schedules will probably be kept with the Little America stations.

The contacts already made were with the main base at Little America and at the South Pole.

In April, 1955, when the expedition was in exploratory operation from the USS Atka, the chief signal officer of the Army appointed the University station the official Army contact with the expedition.

In October, final arrangements were made to assist in the official communications on Army frequencies if and when the Navy communication circuits become too heavily loaded. The University station is also to assist in dispatching of morale messages to and from personnel and their families in case of need.

The station gave similar service for the Admiral Byrd expedition in 1934.

Ceiga To Present Recital On Sunday

George E. Ceiga, University organist, will present a vesper recital in the Helen Eakin Eisenhower Chapel on Sunday, Jan. 20 at 4 p.m.

The program will consist of three Bach works, "Anna Magdalena's March," "Das Alte Jahr Vergangen Ist," and Fugue in G. Minor; "Will O' the Wisp" by George Balch Nevins; Toccata on "How Brightly Shines the Morning Star" by Garth Edmundson; and "Mirage" by Mr. Ceiga.

Dr. Wislicenus Receives Committee Appointment

Dr. George F. Wislicenus, director of the Ordnance Research Laboratory, has been reappointed to the subcommittee for compressors and turbines of the National Advisory Committee for Aeronautics. He has served on the subcommittee since 1949.

UCA Makes Plans For European Seminars

The faculty is invited to send the names of students who might be interested in one or both of the seminars in Europe to be sponsored by the University Christian Association next summer. Names should be sent to The Rev. Robert C. Starbuck, at the Chapel.

Rev. Starbuck also points out that a limited number of flights will be available to faculty and staff members at minimum rates.

The first seminar will run from June 20 to July 31, with a theme of "Introduction to Europe." The itinerary includes 11 days in England, 6 days in France, 14 days in Germany, 4 days in Switzerland and 5 days in Holland. The program will emphasize political, educational, and religious patterns in these countries, with particular emphasis on England and Germany. The cost is \$750.

The second seminar will run from June 27 to August 15, with the theme "International Relations," and will include 4 days in Austria, 5 days in Yugoslavia, and 2 days in Italy, in addition to the countries listed in the first seminar. The cost is \$870.

The prices include transatlantic and continental transportation, lodging and meals abroad, and the expenses involved in all scheduled programs.

Mineral Given Name Of Former Faculty Member

A mineral essentially a hydrous basic sulfate of nickel and ferrous iron has been given the name "honessite" in honor of the late Dr. Arthur P. Honness, professor of mineralogy for 26 years prior to his death in 1942.

The mineral, found near Linden, Wis., is an extremely fine-grained and obscurely fibrous sulphate which was reported on recent Geological Society of America meetings at Minneapolis, Minn.

Chapel Schedule Announced

The Helen Eakin Eisenhower Chapel will be closed after 5 p.m. each day during the final examination and between-semester period. The normal schedule will resume on Feb. 5.

Physics Lecture Scheduled

Dr. R. H. Good, Jr., of the department of physics at Iowa State College, will speak on "Particle Aspect of the Electro-Magnetic Field Equations" at the Physics colloquium on Tuesday, Jan. 29, at 4:10 p.m. in Room 117 Osmond Lab.

History Faculty Members Attend Society Meetings

Five members of the department of history attended the annual meetings of the American Historical Association recently in St. Louis, Mo. They were Dr. Joseph G. Rayback, head of the department, Dr. Robert K. Murray, Dr. William H. Gray, Robert W. Green and Clark C. Spence.

Dr. Murray participated as commentator on papers read at a session on "The Left, The Right, and Civil Liberties," dealing especially with the communist scare of the 'twenties and 'thirties.

Grant of \$3,150 Made For Economics Studies

A grant of \$3,150 from Resource for the Future, Inc., will make possible a survey of market structure and industrial organization in materials-producing industries of the country by Dr. William H. Martin, associate professor of economics.

Dr. Martin expects to bring together materials from industrial journals, doctoral dissertations, monographs, Congressional investigations and other sources in his survey. The entire study is a pioneer effort and represents the first time that material and information concerning so many aspects of the nation's economic performance are being compiled in one subject.

Resources for the Future, Inc., financed by the Ford Foundation, is engaged in broad and far-reaching studies of the nation's capacity for continued economic growth.

Navy ROTC Unit In Inaugural Parade

A detachment of 100 midshipmen from the University will participate in the inaugural parade in Washington, D.C., on Monday, Jan. 21. The Navy ROTC units at Penn State and the University of North Carolina were chosen from among the 54 units throughout the country to join the Naval Academy in the parade.

The unit will pass in review identified by the Penn State guidon.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Saturday, Feb. 2

Varsity wrestling, versus Ohio State, 7 p.m., Rec Hall.
Varsity gymnastics, versus West Virginia, 8:45 p.m., Rec Hall.
Spring semester registration ends.

Sunday, Feb. 3

Chapel services, 10:55 a.m., Schwab Auditorium. Dr. Luther Harshbarger, University chaplain.

Monday, Feb. 4

Dr. Clarence Ross, Wright Aircraft Development Command, on "Experiences with Computers," 8 p.m., 316 Sparks Building.
Spring semester class begin, 8 a.m.

Tuesday, Feb. 5

University Senate meeting, 4:10 p.m., Room 121 Sparks. Please note change of date and place.

Economics seminar, 12 noon, dining room "C," Hetzel Union Building. Alfred Dombrowski, Bureau of Business Research on "Concrete Picture of Quantitative Aspects of the Pennsylvania Economy and Related Social Features."

Wednesday, Feb. 6

Forestry convocation, 11 a.m., 121 Sparks. Ralph C. Wible, deputy secretary and State forester, Department of Forest and Waters, on "Opportunities in Forestry in the Department of Forests and Waters."

Varsity gymnastics, versus Temple University, 8 p.m., Rec Hall.

Francis Keil, U.S. Steel Corporation, on "The Use of Computers in the Bridge Division of U.S. Steel" at 8 p.m., Room 110 Electrical Engineering.

Dr. Weaver Named Dean Of Summer Sessions

Dr. Palmer C. Weaver, assistant dean of the College of Education and director of Summer Sessions, has been named dean of Summer Sessions, effective today.

This is the first time since 1922 that the summer program has not been directed by the dean or assistant dean of the College of Education. The move reflects the increased importance of the summer program which last year saw nearly 10,000 students, 55 per cent of them graduate students, in attendance at the three sessions.

The Board of Trustees also approved the appointment of Dr. Abram W. Vandermeer, professor of education, to the position of assistant to the dean of the College of Education.

Deike Re-elected Board President

George H. Dieke, of Pittsburgh, was re-elected president of the Board of Trustees at the meeting of the Board in Harrisburg last weekend. Mr. Deike succeeded the late Judge James Milholland last February.

Roger W. Rowland, New Castle, was re-elected vice-president; Dr. Eric A. Walker, secretary; C. S. Wyand, assistant secretary, and S. K. Hostetter, treasurer.

Re-elected to the Executive Committee of the Board were Kenzie S. Bagshaw, Richardson Dilworth, William D. Harkins, J. L. Mauthe, Walter W. Patchell, George W. Slocum, and Rowland. Dr. Walker and Deike serve as ex-officio members.

Kenworthy Executive Assistant to President

Wilmer E. Kenworthy, who has been serving temporarily as administrative assistant to the President since Oct. 1, has been named executive assistant to the President effective Feb. 1. He will continue to serve as director of student affairs.

Kenworthy has served on the staffs of three presidents of the University—Dr. Ralph Dorn Hetzel, Dr. Milton S. Eisenhower and Dr. Eric A. Walker. He joined the staff in 1937.

Dr. Ross To Speak on Digital Computers Monday

Dr. Clarence Ross, chief of the computation branch of the Aeronautical Research Laboratory, Wright-Patterson Air Force Base, will be the next speaker on the continuing program on the digital computer. He will speak of his experiences with computers at Wright-Patterson on Monday, Feb. 4, at 8 p.m., in Room 316, Sparks Building.

Talks on the digital computer similar to those given in January will continue through the spring semester.

Board Elevates Three To Vice Presidencies

Dr. Michael A. Farrell, associate dean of the College of Agriculture and director of the Agricultural Experiment Station, was named vice president for research by the Board of Trustees at its meeting in Harrisburg last weekend.

C. S. Wyand, executive assistant to the President, was named vice president for development, and Lawrence E. Dennis, provost, was named vice president for academic affairs in companion actions by the Board.

The President's staff now includes in addition to Farrell, Wyand, and Dennis, S. K. Hostetter, Wilmer E. Kenworthy, Edward L. Keller, Kenneth R. Erfft, Louis H. Bell, Ossian R. MacKenzie, Robert G. Bernreuter, and Christian K. Arnold.

Dr. Honey Named Director Of Home Economics Research

Dr. Ruth R. Honey, professor of family economics and housing, has been appointed director of research in the College of Home Economics.

Dr. Honey will assume responsibility for coordinating and developing the program of research in all aspects of home and family life. She will continue as professor in the department of home management, family economics, housing, and home equipment.

Dean Williamson Nominated To Turnpike Commission

Dr. Merritt A. Williamson, dean of the College of Engineering and Architecture, was nominated last weekend by Gov. George M. Leader to the position on the Pennsylvania Turnpike Commission.

Dean Williamson has been granted a leave of absence to accept the post and will retain his title of dean of the College. Although the full details of the job have not yet been worked out, it is expected that Dean Williamson can spend some time at his University post each week and return to it full time after the special assignment.



Ralph Montgomery, research contract coordinator, is associated with over 500 research projects, yet will never have his name on a research bulletin.

Research Contracts

Paper Work, Red Tape Minimized For Research Project Directors

ALTHOUGH he does no research himself, Ralph E. Montgomery is a part of more research projects than any other person on campus.

As research contract coordinator, Ralph has a close tie with, at present, over 500 different research "accounts" and many other accounts closely associated with research. From the day negotiations are opened to initiate contracts for programs in all the areas of the University until, in many cases, five to seven years after the project is closed, Ralph is concerned with the project.

Many project leaders have come to appreciate Ralph's help because he takes much of the paper work and red tape out of their hands, although admittedly there is still some left for them. The red tape associated with finances and of financial reports to government agencies and private industries has made more than one researcher throw up his hands in defeat because he couldn't get any research done.

Although much research is done at the University under appropriations, over \$4,750,000 in research funds are expended annually in contract research and grants, including that at the Ordnance Research Laboratory. Some idea of the necessity for this type of coordi-

nating effort in financial matters related to research can be gained through comparison of the University's contract research accounts now and in 1940. The number of accounts, for example, has increased more than five times in 17 years, as shown in the table below.

Contracts are initiated generally with a contact between a department or potential project director and the outside agency, be it government or private.

Once that step is taken, proposals are worked up, negotiations for a contract are started, a contract is drawn up, and the treasurer of the University signs the agreement. There are many, many details to be ironed out in these procedures and in some cases it may be a year or more before research is actually started after the original contact is made.

"On the other hand," Ralph says, "we sometimes will go through these stages in a few days."

In the proposal stages, Ralph is available to help on such questions as the completeness of the budget, determination of indirect costs, and compliance with University policy. In pre-contract negotiations which follow, especially in government contracts, Ralph aids in

problems related to budget, contract clauses, security, and University policy. Knowledge of government policies especially, because they are so voluminous and change so frequently, is helpful in Ralph's position. Such items as overhead costs, patent rights, publications, ownership of property, property control procedures, billing requirements, methods of payment, reports, auditing, and procurement provisions vary from contract to contract.

During the life of the contract, Ralph's office keeps the University record of total contract funds, checks operations budgets prior to approval by the Comptroller, accumulates annual income and expense figures, prepares bills and maintains billing control system and prepares financial statements. In some contracts, every invoice must be detailed in billing (under cost-type contracts). He helps to resolve exceptions taken to expenditures (especially under government contracts) and to advise project leaders on "irregularities" of the contract so that they know which are legitimate expenses and which are not.

The job doesn't end with the fulfillment of the research itself. Patent and financial matters may drag on for some time. Ralph maintains a file of contract research information for periods up to seven years after completion of the research work because in government affairs auditing of those accounts may be done as late as that.

At the close of the contract period, Ralph also makes certain that the University has received all income due and cleared up all obligations under the contract, makes a final accounting of property, refunds unused monies, handles price redetermination proceedings, and renders financial statements.

Lately another element has entered his work since he is also the security officer for the University (with the exception of the Ordnance Lab), making contacts for clearance of personnel on classified projects and inspection of facilities.

It isn't quite true that Ralph does no research because his work in itself is a form of research. But presumably his name will never appear on a research report even though it has been a part of it from start to finish.

Award Made For Research By Forestry Staff Members

Three members of the faculty of the School of Forestry recently won a joint award of \$100 for research in brush control techniques.

William C. Bramble, head of the School, William R. Byrnes, instructor, and David P. Worley, assistant professor, presented a report on their research recently at the eleventh annual Northeastern Weed Control Conference in New York, N.Y.

The studies were made to determine the effects of certain treatments in the control of brush along power line rights of way.

Contract Research and Grants

College	No. of Accounts		Dollar Value	
	1940	1947	1940	1947
Agriculture	25	133	\$24,400	\$ 417,000
Eng. and Arch.	14	91	15,900	2,734,000
Chem-Phys	19	114	80,200	740,000
Mineral Ind.	21	112	45,300	722,000
Education	7	14	20,800	128,000
Business Adm.		17		4,000
Home Econ.		7		15,000
Liberal Arts		12		6,900
Council on Res.		2		5,300
Total	86	502	\$86,600	\$4,772,200

(Note: The above figures do not include appropriations for research, nor do they include contracts for training courses, of which Ralph handles many.)

Items of Interest

Dr. W. A. Weyl, chairman of the division of mineral technology, recently gave two talks related to the use of sodium silicate in weather resistant window glass. He spoke before the physical and inorganic group of the Philadelphia section of the American Chemical Society and gave the Sigma Xi lecture at Franklin and Marshall College.

* * *

Paul E. Shields, associate professor of electrical engineering, presented a paper on "The A-C Network Analyzer" at the winter meeting of the American Institute of Electrical Engineers in New York recently.

* * *

Dr. Edward C. Thaden, assistant professor of history, is the author of an article titled "Natural Law and Historicism in the Social Sciences" appearing in the January issue of "Social Science."

* * *

An article on "Merit System for Highway Engineers" by William H. Gotolski, instructor in civil engineering, has been published in the magazine "Constructioneer."

* * *

Dr. Marsh W. White, professor of physics, has been named regional consultant for Pennsylvania and New Jersey for the Science Teaching Improvement program of the American Association for the Advancement of Science.

* * *

Dr. Hans A. Panofsky, professor of meteorology, is author of a book titled "Introduction to Dynamic Meteorology" of interest primarily to forecasters and to college students on the junior and senior level.

* * *

Theodore S. Spicer, professor of fuel technology, has begun his tenth year as associate editor of "Utilization," a magazine in the coal use field. He has been a member of the staff of the publication since its first issue and has contributed over forty technical articles to it.

* * *

Dr. Joseph Marin, head of the department of engineering mechanics, is author of an article on "Significance of Material Properties in Design for Fatigue Loading" appearing in a recent issue of Machine Design.

* * *

An article titled "The Small Manufacturer's Stake in Automation" by Chester Linsky, assistant professor of industrial engineering, published in the November issue of "Tooling and Production."

* * *

Dr. Earl P. Strong, professor management and director of the Bureau of Business Research, was one of the featured speakers at a clinic of the Pennsylvania Bankers Association this week in Philadelphia.

Report from the Registrar

WITHDRAWALS (Campus)

- 5 Abraham, Francis Milton, A&L, Dec. 21
- 3 Aument, Donald Glenn, Aero, Jan. 5
- 3 Belenski, Alexander Anthony, DIR, Dec. 6
- 6 Borkowski, Josephine Victoria, ApArt, Dec. 14
- 3 Carstensen, Ward Arnold, DIR, Jan. 11
- 5 Curtis, Richard E., ME, Dec. 20
- 8 DeMay, Allen Donald, G&M, Jan. 10
- 3 Edwards, William E., Aero, Dec. 14
- 3 Forbes, Bruce Lyle, DIR, Jan. 4
- 3 Goldstein, Stanley I., CE, Dec. 21
- Gr Goodman, Ruth S., Oct. 17
- 5 Jervis, Ronald E., EE, Jan. 4
- 5 Kirkpatrick, John Alger, ABCh, Jan. 10
- 5 Majka, Walter John, DIR, Dec. 20
- 5 Miller, Owen David, EE, Jan. 9
- 3 Montgomery, Ann, DIR, Nov. 16
- 3 Nielsen, Gilbert Oscar, CE, Jan. 4
- 3 Parker, George W., DIR, Jan. 7
- 4 Proudfoot, Eric Gordon, ApArt, Jan. 10
- 1 Pennell, Mary Anne, A&L, Jan. 14
- 1 Riddle, Kenneth Whitford, Jr., For., Jan. 10
- 1 Schacter, Gary Lewis, Aero, Jan. 3
- 7 Silvers, William Cole, Journ, Dec. 14
- 3 Wenner, Sally, DIR, Dec. 1
- 1 Wyrough, George Joseph, BA, Jan. 4

WITHDRAWALS (University Centers)

Bachelor Degree Program

- 4 Cutler, Robert Jay, HA, Dec. 20
- 1 Denicoff, David, EE, Jan. 3
- 3 Wood, Arthur Thomas, EE, Jan. 3

Associate Degree Program

- 1 Ciotti, Anthony John, ET, Nov. 22
- 1 Cousler, William Austin, DDT, Jan. 7
- 1 Elscheid, Edward Anthony, DDT, Nov. 30
- 1 Fetrow, Robert Donald, DDT, Jan. 7
- 1 Halcovage, Jonathan Peter, DDT, Dec. 20
- 2 Kuhn, Francis Eugene, ET, Dec. 17
- 1 Warner, Stuart Murrel, ET, Nov. 2
- 1 Wolfer, Gordon Barry, DDT, Dec. 14

The following reasons were given for withdrawing: Personal 26, Illness 5, Scholastic 3 and Other 1.

Red Cross Course Starts February 11

A Red Cross advanced first aid course will be given starting Monday, Feb. 11, at 7 p.m. in Room 301 Rec Hall. Mrs. Amy Kerstetter will serve as instructor.

The course is of 12 hours duration and the class and instructor will determine class hours at the first meeting.

Dr. Russell On Leave For Work In Hawaii

Dr. David W. Russell, professor of education, has departed with his family for Hawaii where he will spend the spring semester as curriculum consultant for the Iolani School, Honolulu. He will assist in the development of an elementary education program.

The school is more than 100 years old and has a mixed enrollment of Chinese, Japanese, Hawaiian and American children.

Changes In Rank Made For Ten Ordnance Lab Members

Ten members of the staff of the Ordnance Research Laboratory have received changes in rank. Robert C. Eck and Herbert D. Norveil were named research associates and Raymond J. Anderson, J. Verne Coontz, Henry D. Eng, Charles E. Mothersbaugh, Charles B. Myers, Edgar Ulrich, and Harry F. Wegener were named research assistants.

Dr. Boyle To Talk To Plant Science Club

Dr. John S. Boyle, associate professor of plant pathology, will talk on "Pictorial Highlights and Impressions of a Visit to Guatemala" at the meeting of the Plant Science Club on Tuesday, Feb. 12, at 7:30 p.m., in Room 111, Tyson Hall.

The meeting is open to any interested persons.

Christ-Janer's Painting Purchased for Collection

A painting entitled "Staten Islands Spirits" by Albert Christ-Janer, director of the School of the Arts, has been purchased for the permanent collection of the Staten Island Institute of Arts and Sciences.

The painting was done last fall in a painting "bee" attended by 20 artists. Pictures painted during the "bee" will be on exhibition at the Institute's museum during February and March.

Christ-Janer's painting is an expressionist abstraction indicating the masts of the ships and the industrial machinery on the docks near the St. George terminal on the Island.

More Technicians Should Be Trained

Students in engineering curricula must have an I.Q. of 120 to have reasonable assurance of completing their undergraduate work, President Eric A. Walker told a group at meetings of the American Institute of Electrical Engineers in New York recently.

Urging the training of more technicians in engineering fields, President Walker pointed out that today twice as many engineers are graduated from colleges and universities as are technicians. The ratio should be reversed, he said, not by lowering the number of engineers but by increasing the number of technicians.

Only 10 per cent of the population has an I.Q. of 120 or higher, Dr. Walker emphasized, and of these only half go to college. Engineering cannot expect to get a significantly higher percentage of these brilliant students than it now gets. The potential reservoir of good technicians lies in the larger segment of the population with an I.Q. between 100 and 120. Technicians take only half as long to train, he said, but we should not weaken professional standards by attempting to make junior engineers out of technicians.

Dr. Walker participated in a panel discussion before the section on Education in Electronics of the Institute.

A. Leland Beam Dies

A. Leland Beam, professor emeritus of dairy production and director of agricultural short courses for 14 years before his retirement in 1954, died Jan. 21 at the age of 65. Mr. Beam served on the faculty from 1916 until his retirement.

Automation Lab Nearly Ready

The new automation laboratory is expected to be ready for operation early this month. The laboratory is a special consultation, research, and development service established to assist small industries of Pennsylvania.

The program, supported by State funds, will provide information relating to tools and techniques used in automating industrial processes. It is part of the department of industrial engineering.

Grant Made For Studies In Wood Products

A grant of \$5,000 to the School of Forestry to support research on wood particle board has been made by the Pennsylvania Department of Forests and Waters.

Wood particle board is made by forming under heat and pressure a mixture of small wood particles with resin. In recent years it has gained popularity as foundation for veneers, synthetic plastic tops and over coverings for furniture and household supplies.

Dr. William T. Nearn, associate professor of wood utilization, is in charge of the research. He points out that the manufacture of this type of wood product is a natural industry for the State in that Pennsylvania is heavily forested and has a good supply of low grade woods used in the production of the board.

623 Receive Degrees At Sunday Commencement

A total of 623 graduates received degrees at commencement exercises on Sunday, Jan. 27.

President Eric A. Walker conferred 445 bachelor's degrees; 169 advanced degrees, including 39 doctorates; and 9 associate degrees.

The commencement exercises were combined with those of the baccalaureate program.

Twenty-nine seniors who have completed the R.O.T.C. programs of the Army, Navy, Marine Corps or Air Force were conferred commissions in the several Corps.

Yale Professor To Give Graduate School Lecture

Dr. Henry Margenau, Eugene Higgins professor of physics and natural philosophy at Yale University, will present the first Graduate School Lecture of the Spring Semester on Wednesday, Feb. 13 at 8 p.m. in Room 10 Sparks Building. The lecture is co-sponsored by Sigma Xi.

Dr. Margenau's topic will be "Philosophical Perspectives of Modern Physics."

On Mar. 11, Dr. John W. McConnell, dean of the Graduate School of Cornell University, will be the speaker on the series and on May 21 the speaker will be Dr. Max A. Lauffer, dean of the division of the natural sciences, University of Pittsburgh.

Zoretich Painting Selected For Corcoran Gallery

A painting titled "Valley" by George S. Zoretich, assistant professor of art, is now in the 25th biennial exhibition of the Corcoran Art Gallery, Washington, D.C. The exhibition will end Mar. 10 and will be shown in Toledo, Ohio, from April 1 to April 30. A representative selection will then go on tour under the auspices of the American Federation of Arts.

Of the total of 1,643 paintings submitted for the exhibition, only 70 were selected for the judges for hanging. An additional 120 paintings selected by invitation are included in the exhibition.

This is the second painting by Zoretich selected for this exhibition. In 1953 his was one of 50 chosen at the time by the American Federation of Arts for a one-year tour.

Policy Adopted For Naming Buildings

A broadened policy for the naming of buildings and roads on campus was approved by the Board of Trustees at its meeting in Harrisburg last weekend. The policy was recommended by the committee on naming roads and buildings.

No building on campus will be named for any living person, under the policy. Buildings used for general college purposes and which serve the University as a whole will be named for persons who have contributed to the welfare and development of the institution as a whole or who have made contributions to education in Pennsylvania or the Nation.

Buildings for other than general use and are intended primarily to serve the needs of a particular college will be named for persons who have particularly distinguished themselves in the work of that school, either at Penn State or elsewhere.

A policy was also adopted for the uniform marking of buildings. Metallic block letters, such as those used on the Hetzel Union Building or the Memorial Gateway pylons at the Atherton Street entrance to the campus, will be used.

Living quarters for students will be known as "residence halls"; buildings primarily occupied by laboratories will be known as "laboratories"; and buildings occupied by offices and classrooms will be known as "buildings."

Blue Band In Clinic

A clinic-rehearsal on Sunday afternoon at the Extension Conference Center on east campus will be held by the Penn State Blue Band and nearly 175 high school bandmen from the Central District of the State.

Members of the Blue Band will form the nucleus for the clinic-rehearsal being held to aid the high school musicians prepare for the Central District of Pennsylvania Band which will assemble Feb. 14 to 16 at Selinsgrove.

James W. Dunlop, associate professor of music education, is in charge of the clinic-rehearsal.

Trustees Approve Four Retirements

Retirements of four faculty members were approved at the recent meeting of the Board of Trustees.

Dr. Donald S. Cryder, professor and head of the department of chemical engineering, and Sybil D. Emerson, professor of art education, will retire June 30 with emeritus rank.

Raymond G. Waltz, county agricultural agent in Montgomery County retired, effective yesterday, and Frank K. Miller, Clarion County agricultural agent, will retire Mar. 1.

Dr. Cryder received his bachelor of science degree in 1920 at Penn State and his master of science degree in 1923. He was appointed to the faculty in 1920. In 1929 he received a master of science degree and in 1930 a doctor of science degree from the Massachusetts Institute of Technology. He became head of the newly created department of chemical engineering in 1948.

Miss Emerson received bachelor of arts and bachelor of science in education degrees from Ohio State University and studied art in San Francisco and Paris, France. She taught in New York and San Francisco high schools and Lycoming College before her appointment to the faculty in 1942.

Waltz is a 1918 graduate of the University and served as county agent in Sullivan and Montgomery Counties since 1920.

Miller graduated in 1922 from Penn State and has served in Clarion County since his graduation.

Leetch To Co-ordinate Scholarship Program

George N. P. Leetch, director of the University Placement Service, has been appointed to the additional duty of coordinator of scholarships, effective Mar. 1.

The program involves the handling of more than 1800 scholarships valued at over \$325,000. Wilmer E. Kenworthy, named executive assistant to the president last weekend, is now co-ordinator of scholarships.

Leetch was named to the staff in 1941 and two years later was selected to the post he now holds.

Special Course Given For 22 Latin Americans

A special ten-month course in American educational methods, particularly in the field of school supervision, is currently being given to 22 Latin-American educators.

Dr. Charles M. Long, professor and head of the department of education, is supervising the program and Dr. Joseph Alessandro, assistant professor of education, is serving as co-ordinator for the project.

The Latin-Americans, studying in the United States under the International Cooperation Administration, are school administrators from Paraguay, Guatemala, Panama, and Bolivia.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Monday, Feb. 11

Lecture on digital computers by Don Furth, analysis group supervisor, Douglas Aircraft Co., Santa Monica, Cal., to discuss organization of the company's installation. Room 110, Electrical Engineering, 7:30 p.m.

Faculty Luncheon Club, 12 noon, Dining Room "A", Hetzel Union Bldg. Dr. K. R. Erfft, University comptroller, on 'The Facts and the Wrong Conclusion,' a report on the California Western Conference-Penn State Statistical Survey.

Tuesday, Feb. 12

Economics Seminar, 12 noon, dining room "C", Hetzel Union Building. Donald Cullen, assistant professor of New York State School of Industry and Labor Relations, Cornell University, on 'Labor Relations on the St. Lawrence Seaway.' Public invited, lunch from the cafeteria.

Penn State chapter of American Society for Metals meeting, 7:30 p.m., Mineral Sciences Auditorium. 'Metallurgy As a Career' by D. I. Dilworth, director of metallurgy, Crucible Steel Co., and R. S. Pratt, technical director, Bridgeport Brass Co.

American Chemical Society Central Pennsylvania Chapter meeting, 8 p.m., Room 119, Osmond Lab. Dr. Harold G. Cassidy, Yale University, on redox polymers.

Plant Science Club Meeting, 7:30 p.m., Room 111 Tyson Hall. Dr. John S. Boyle, associate professor of plant pathology, on 'Pictorial Highlights and Impressions of a Visit to Guatemala.'

Wednesday, Feb. 13

Graduate School Lecture Series, 8 p.m., Room 10, Sparks. Dr. Henry Margenau, Yale University, on 'Philosophical Perspectives of Modern Physics.'

Physics Colloquium, 4:10 p.m., Room 117 Osmond Lab. Dr. Henry Margenau, Yale University, on 'Molecular Interaction and the Structure of the Spectral Lines.'

Meeting of Penn State Student Chapter, AIME, 7:30 p.m., Mineral Sciences Auditorium. G. P. Mahood, Bethlehem Steel Co., on 'The Yieldable Arch.'

Basketball, versus Bucknell, freshman, 6:30 p.m., varsity 8 p.m.

Thursday, Feb. 14

Meeting of Liberal Arts faculty, 4:10 p.m., Room 121 Sparks.

Friday, Feb. 15

Meeting, College of Agriculture faculty, 4:10 p.m., Room 109, Armsby Hall.

Meetings Coming Up

There will be a meeting of the faculty of the Graduate School on Thursday, Feb. 21, at 4:10 p.m., in Room 121, Sparks.

* * *

The faculty of the College of Physical Education and Athletics will meet on Feb. 25, at 7 p.m., Room 241, Recreation Building.

Governor Recommends \$27.7 Million Appropriation

Gov. George M. Leader has recommended to the Legislature an appropriation of \$27,713,400 for the University for the next biennium. This is \$2,519,000 over the appropriation for the present biennium.

President Eric A. Walker, in commenting on the recommended appropriation, said:

"During the past two years we have had frequent evidence of Governor Leader's interest in the State University, and of his efforts to help it keep pace with the rapid increase in the demands being made on it for instructional and research services by the citizens of the Commonwealth. At his request, officers of the University presented to him a performance budget for the 1957-59 biennium which reflected the most pressing of these demands expressed in monetary terms adjusted to the most frugal operation possible without sacrifice of academic standards.

"The difficult fiscal position the Governor faced at the time he prepared his budget message has led him to propose a State appropriation which manifestly falls far short of meeting the University's basic obligations. However, he feels that the members of the General Assembly should have the same opportunity to assess the situation as he has had. Accordingly, officers of the University will discuss with the Legislature the budget as approved by the Trustees, and as presented to the Governor last November."

Penn State Ranks Tenth Nationally

Penn State is the 10th largest university in the country in full-time enrollment, reports Dr. Raymond Walters, president emeritus of the University of Cincinnati, in his 37th annual survey.

The survey shows a full-time enrollment of 1,724,897 students in 901 approved universities and four-year colleges and 559,222 part-time students. Figures are for the fall semester.

Dr. Margenau, of Yale, To Give Two Talks

Dr. Henry Margenau, Eugene Higgins professor of physics at Yale University, will be the speaker on two programs on Wednesday, Feb. 13.

Dr. Margenau will be the lecturer on the Graduate School Lecture Series at 8 p.m. in Room 10 Sparks, on the topic "Philosophical Perspectives of Modern Physics." The lecture is co-sponsored with Sigma Xi.

He will also address the Physics Colloquium at 4:10 p.m. in Room 117, Osmond Laboratory, on "Molecular Interaction and the Structure of the Spectral Lines."

Sackett, Hammond Honored In Naming Buildings

The present Main Engineering building will be named Sackett Building and the engineering building to be constructed along College Ave. will be named Hammond Building in honor of two former deans of the College of Engineering and Architecture.

Dr. Sackett, who received his degrees from the University of Michigan, came to Penn State in 1915 from Purdue University and served as dean until his retirement in 1937. He died in 1946.

Dr. Hammond succeeded Dr. Sackett as dean in 1937 and served until retirement in 1951. He died two years later. He was a graduate of the University of Pennsylvania and received the degree of doctor of engineering from the Case School of Applied Science and of doctor of laws from the University of Vermont.

Yale Professor To Address ACS Meeting

Dr. Harold G. Cassidy, associate professor of chemistry at Yale University, will be the speaker at the meeting of the Central Pennsylvania Chapter of the American Chemical Society on Tuesday, Feb. 12, at 8 p.m. in Room 119 Osmond Laboratory.

Administrative Committees Formed To Work With Trustees, Faculty

A plan of organization of faculty, administration, and trustees to more closely integrate their work was approved at the meeting of the Board of Trustees on Jan. 26.

Portions of the plan were revealed to the faculty by President Eric A. Walker in his talk to the faculty on Nov. 20 last.

Principal feature of the plan is the establishment of counterpart committees—in five major areas—representing the faculty, administration, and trustees. The areas are instruction, extension, research, student affairs, and long-range development.

In the area of instruction and academic affairs, the trustees set up a new Committee on Instruction to work with the established Senate Committee on Educational Policy which Dean Harold K. Schilling now heads; a newly established Council of Academic Deans, headed by President Eric A. Walker; and an Administrative Committee on Procedures, with L. E. Dennis as chairman.

The Council of Academic Deans will include the deans of the several colleges (F. G. Brickwedde, Ben Euwena, Grace Henderson, Lyman E. Jackson, Ernest B. McCoy, E. F. Osborn, John R. Rackley, Merritt A. Williamson, and David H. McKinley (acting for Ossian R. MacKenzie); the vice president for Academic Affairs (L. E. Dennis) as vice chairman; the dean of the Graduate School (H. K. Schilling); the Dean of Summer Sessions (P. C. Weaver); the dean of Admissions (C. O. Williams); and Dr. Walker as chairman.

The Administrative Committee on Procedures will consist of the vice president for Academic Affairs (Mr. Dennis) as chairman; the dean of Admissions (Dr. Williams) or his representative; the assistant registrar (R. M. Koser); the assistant director of the Division of Intermediate Registration (J. D. Ashby); the assistant (academic) deans of the several colleges (Dorothy Houghton, J. D. Lawther, R. C. Maloney, D. R. McClay, D. H. McKinley, C. I. Noll, J. D. Ridge, E. B. Stavely, and A. W. VanderMeer); assistant dean of the Graduate School (H. W. Knerr) a representative of General Extension (T. S. Goas) and the dean of Summer Sessions (Dr. Weaver) or his representative.

The Council of Administration and the Committee to Facilitate Procedures are dissolved in favor of these new committees.

The Administrative Committee on Extension, the counterpart of the Senate Committee on Extension Policy (now headed by Dr. A. Witt Hutchison)

will consist of the director of General Extension (Edward L. Keller) as chairman; the directors of Extension of the several colleges (K. L. Holderman, D. C. Jones, B. B. Lethbridge, J. J. Lowden, T. H. Patton, W. H. Powers, C. W. Stoddart, and Delpha E. Wiesendanger); the representative of the dean of the Graduate School (H. W. Knerr); and a representative of the dean of Admissions (R. E. Tschan).

The Administrative Committee on Research, working with the Senate Committee on Research Policy (headed by Dr. R. W. Stone) will be headed by Dr. Michael A. Farrell, vice president for Research. The complete makeup of this committee is yet to be named.

The Administrative Committee on Student Affairs, which will work with the Senate Student Affairs Committee, whose chairman is now Dr. Henry S. Brunner, will be headed by Dr. Robert G. Bernreuter, director of the Division of Counseling. It will include the Dean of Men (Frank J. Simes); Dean of Women (Pearl O. Weston); the directors of Student Affairs (W. E. Kenworthy), of the Division of Intermediate Registration (Dr. H. K. Wilson), of Foreign Student Affairs (R. C. Maloney), of the Health Service (Dr. H. R. Glenn), and of the Placement Service (G. N. P. Leetch); the University Chaplain (Luther H. Harshbarger); the manager of Associated Student Activities (George L. Donovan); and the dean of Admissions (Dr. Williams) or his representative.

A committee on Long-Range Development made up of faculty and administrative staff members will conduct studies pertinent to the growth and development of the University and prepare reports and recommendations for the President. The committee will consist of the Vice President for Development (C. S. Wyand) as chairman; the vice president for Academic Affairs (L. E. Dennis) the vice president for Research (M. A. Farrell); the Director of General Extension (E. L. Keller); the research director for Long-Range Development (yet to be named); and ex officio the chairmen of the Senate Committees on Educational Policy, Extension Policy, and on Research Policy.

There will be similar liaison in the area of University Operations between the Trustees and the Administration. The Administration Committee on Operations will consist of the vice president for Business Administration, as chairman, the Comptroller (K. R. Errft), and the directors of Employee Relations (R. T. Fortunato), Food Service (Mildred A. Baker), Housing (O. E. Mueller), Personnel (F. F. Morris),

Physical Plant (W. H. Wiegand), and Purchasing (A. C. St. Clair).

George E. Deike, president of the Board of Trustees, will name chairmen of trustee committees in these seven areas to work with the faculty and administration committees.

At the same meeting, the trustees approved the establishment of four administrative positions: vice president for Academic Affairs (L. E. Dennis), vice president for Development (C. S. Wyand), vice president for Research (M. A. Farrell), and vice president for Business Administration (yet to be named).

The vice president for Academic Affairs will be responsible to the President for the administration of the institution's instructional program and procedures, and for the general welfare of the faculty.

The vice president for Business Administration will be responsible for the general supervision of the physical planning of construction, and the operational activities of the University, including housing, personnel, employee relations, food service, purchasing, and physical plant.

The vice president for Development will be responsible for the coordination of all general economic and long-range planning for the development of the University, and act as liaison officer for the growth and general development of the University.

The vice president for research will be responsible for the coordination and stimulation of the research program.

The various committee appointments took effect Feb. 1.

Norton, Weisman Give Papers in Detroit

Dr. Paul F. Norton, associate professor of history of art and architecture, and Dr. Winston R. Weisman, assistant professor, gave papers at the recent joint meeting of the College Art Association and the Society of Architectural Historians at Detroit, Mich.

Dr. Norton was named a director of the Society of Architectural Historians at the conclusion of the meeting. He read a paper before the Renaissance art group on "The Lost Cupid of Michaelangelo."

Dr. Weisman's paper, given at a joint session of the Society and the Detroit Chapter of the American Institute of Architects, was titled, "Sources of Sullivan's Functionalism in Philadelphia."

White Fellowship Applications Received

Applications are now being received for two John W. White fellowships, each worth \$600, available to members of the graduating class, with proper qualifications, who will profit by graduate study, either at Penn State, or elsewhere.

Forms are available at 203 Old Main, and must be submitted by Mar. 5 to the Coordinator of Scholarships

University's Role in Borough Discussed by President Walker

(President Eric A. Walker, in a talk before the State College Area Chamber of Commerce, discussed the University's role in the development of the State College area. The following are some excerpts from his talk.)

Today, the University is facing the greatest expansion in its history. All studies indicate that we must plan for a student population of about 20,000 by 1975. I wish to emphasize that this figure is not the enrollment we hope to have. It does not represent growth we think we could achieve. Rather, it is a carefully made, conservative estimate of the number of students we will be required to take. In fact, 20,000 students in 1975 will probably represent a smaller percentage of those applying for admission than we now accept. . . .

. . . We shall have to provide somewhat more adequately for the education of Pennsylvania's young women than we have in the past. . . (and) these girls will have to be housed on campus, which means we shall have to build more dormitories than we would if the ratio of men to women students were to remain the same as it is now. . . . We shall probably have to expand our graduate programs. . . . the community colleges, such as our centers at Altoona, DuBois, and elsewhere, will have to assume much more responsibility for the load than they do now. . . .

In addition, now that we are a university, we shall have to seek more funds to provide more adequately for what I like to call "university requirements"—that is, for services, courses and the like that are not indigenous to the individual professional colleges but are needed for the benefit of all students. High on this list is more aid for the library. . . we must improve the variety and context of our general cultural courses. . . especially in the biological, physical, and social sciences. . . That is why a new biology building is high on our priority list of needs.

(Speaking of the peculiar nature of the present campus and the requirements relative to access by traffic and increased student and faculty populations, President Walker said:

Consequently the University has recently acquired the Dreibelbis farm that adjoins the University golf course. Although this property consists of about 100 acres to the north and 27 acres to the south of Route 45, the University did not acquire the potential residential and commercial areas bordering on the highway. The University has no desire to choke off the expansion of the Borough in this direction.

. . . Existing academic areas (of the campus as it now exists) cover about 65½ acres, and existing residential areas cover 55½ acres. . . over 80 acres of academic space are available for additional classroom and laboratory buildings in

the central part of the campus without destroying the pleasant rural atmosphere that has characterized Penn State. . . We still have about 93 acres that are suitable for use as residential building sites. In other words . . . we can more than double our capacity without either spreading too far or crowding our classes into tall, close-packed buildings.

Beaver Field. . . is (indicated) as a future academic building site. Before any of you get the idea that we are discontinuing football, baseball, track, and soccer, I should like to remind you that this study shows only how it *could* be done; it doesn't necessarily show how it *will* be done. Actually several factors seem to indicate that Beaver Field should be moved and the possibility of doing so is going to be seriously considered. These factors include the need for more spectator, playing field, and parking space; the fact that the field is within the ¾-mile circle (of Pollock Road and the Mall), making it premium academic-building space; and the fact that the construction of the stadium makes it easy to move.

You may also notice that the northern edge of the golf course is (indicated) as a student-housing area. Actually, that part of the golf course bordering Atherton Street is also within the ¾-mile zone. Consequently we may eventually move the golf course farther to the west so that this premium area along the west side of Atherton can be used for needed buildings.

(President Walker then reviewed the present status of construction now underway on campus.)

At its meeting last month, the Board of Trustees approved the floor plans and elevations of eight new buildings, and architects for the General State Authority have been authorized to develop final plans for them. These buildings include a large new Engineering building. . . , a petroleum laboratory. . . a swine research center. . . new turkey breeder houses; new turkey brooder houses; and a military, air, and naval science building to be erected east of the flower plots. . .

In addition to these buildings, the Board of Trustees have approved our request to seek Commonwealth approval for a 24½ million-dollar building program. . . High on this list is an extension to Burrowes Building, a much needed physical education plant, and a classroom and laboratory building for the bacteriology and the zoology and entomology departments. . . .

The women's dormitories now being constructed along College Ave. at the eastern end of the campus should be ready for occupancy this fall. They will permit us to admit about 600 more young women than we did last fall. In April, we expect to let contracts for a men's dormitory to be located at the

southwestern corner of Shortlidge Road and Park Ave. and for the addition to the Foods Building . . . scheduled for completion at the beginning of the 1958 fall term.

Two other women's residence buildings, to be built to the east of McElwain and Simmons Halls in the Pollock Circle area, one of which has been approved in detail, the other in principle, are scheduled for completion by September, 1960. These dormitories, along with some graduate student housing which has been planned but which we rather hope we will not have to build, will just about double the number of students we can house on the campus. Significantly, three-fourths of these additional rooms are for women students. . . .

Let's look at the University's dollar. Slightly over 38 per cent of it comes from the Commonwealth. We have no freedom whatsoever, in the use of this money. . . . Almost 19 per cent comes from the Federal Government. We are told specifically what to do with this money. . . This means that we have no choice whatsoever in how we spend well over half our income.

Student fees bring in another 14 per cent. Of course, we are obligated to use this money for the purposes for which we collected it. The educational departments earn about 7½ per cent as by-products of necessary experimental and research projects.

Another four per cent comes from alumni gifts and from endowments. Although we actually have some choice about how we spend some of this money, much of it is earmarked by the donor for a specific purpose.

In other words, we have almost no choice in how we spend 82½ per cent of our income. It must go for instruction and research.

The remaining 17½ per cent of the University's income is from its auxiliary enterprises. . . We are obligated not simply to forego any possible profit from these enterprises but also to operate them as efficiently as possible.

. . . As the percentage of graduate students increases at Penn State, we shall need more graduate housing, especially since the creation of the "graduate atmosphere" where the scholars can rub intellectual elbows in daily bull-sessions is an extremely important adjunct to any graduate program.

. . . Our business is education . . . The more (auxiliary) enterprises we can get from the Borough, the better off we are. And we feel the increased business will build a sounder Borough economy. Because of these considerations, we would welcome any private development of off-campus residential projects, and would be glad to talk facts and figures with anyone interested in investing in this sort of business.

The University has already in the planning stages an expansion program totalling almost 80 million dollars. If the Borough is to keep pace, 80 million dollars will have to be invested in the State College area in the next 15 years.

Leaves of Absence Approved For Nine Faculty, Staff

Leaves of absence for nine faculty and staff members were approved by the Board of Trustees recently.

Dr. Harold K. Wilson, director of the Division of Intermediate Registration, has been granted a leave from May 1 to Oct. 31. He will work on books on counseling and also on agronomy. He plans to travel while assembling materials for the books.

Dr. Brice Harris, professor of English literature, will serve this semester as exchange professor at the University of Caragoza, Spain.

Dr. Arthur F. Davis, professor of physical education, will conduct research this semester in the field of public health education and prepare a text with teacher's manual in the field of college health education.

Dr. Sidney Siegel, associate professor of psychology, will be on leave from Sept. 1 to June 30 to enable him to accept an invitation as fellow at the Center for Advanced Study in the behavioral sciences at Stanford University.

Eliza M. Corbin, associate professor of home economics extension, will be on leave from Feb. 1 to Jan. 31, 1959, to spend two years on an assignment for the International Cooperation Administration in Saigon, Vietnam.

Charles H. Waha, county agricultural agent in Mercer County, will be on leave from April 16 to Oct. 15 to make a study of farm record keeping practices, the organization of dairy artificial breeding cooperatives, and attend an extension summer school.

Miriam R. Long, extension home economist in Westmoreland County, will be on leave from Mar. 1 to Aug. 31.

Extension of leaves were approved for James F. Keim to June 30, and of Dr. Robert L. Cowan to Sept. 30. Keim, associate professor of agricultural extension, is on an ICA assignment assisting in the reorganization of the agricultural extension program in Italy.

Dr. Cowan, associate professor of animal nutrition, has a Fulbright fellowship for study in research in agronomy at the Massey Agricultural College, Palmerston North, New Zealand.

Study To Be Made Of Rec Hall, Schwab

A study to determine whether present campus facilities, especially Recreation Building and Schwab Auditorium, can be converted for expanded student cultural programs.

In the study, an attempt will be made to determine how much of a program of concerts and lectures could be developed without seriously curtailing the required physical education programs now held in Recreation Hall; what alterations or equipment would be necessary to prepare either Recreation Building or Schwab Auditorium for an expanded program; and the cost of such changes.

Three Faculty Appointments Approved By Trustees

Three appointments to the faculty have been approved by the Board of Trustees.

Dr. Chester W. Hitz, now associate professor of pomology at the University of Delaware, has been named professor of pomology, effective July 1. He received his bachelor of science degree from the University of Missouri and master of science and doctor of philosophy degrees from the University of Maryland. He served four years in the army.

Dr. Paolo Gallitelli, professor of mineralogy at the University of Modena, Italy, has been appointed research associate in the X-ray and Crystal Analysis Laboratory in the physics department.

Frederick M. Lovell, who received his bachelor of science degree in physics and mathematics at the University of Wales, has also been appointed research associate in the X-ray laboratory.

Miss Gullickson Joins Home Economics Staff

Clarice D. Gullickson, dietetic specialist with the Veterans Administration for 20 years, has joined the staff of the College of Home Economics as professor of hotel and institution administration. She will direct a program of research and service in dietary departments of various State institutions.

Before leaving the Veterans Administration, Miss Gullickson was presented with the Superior Accomplishment Award and an outstanding efficiency rating for developing a change in dietetic food and cost accounting from a manual to electrical operation.

A graduate of North Dakota Agricultural College, Miss Gullickson has completed work for the master's degree at the University of Maryland. She is a member of the American Dietetic Association and has contributed many articles to professional publications in the dietetic field.

Report Made on Waste Disposal

An inspection of all potentially hazardous places where chemicals are used has been made by R. Rupert Kountz, professor of sanitary engineering, consultant to the Special Committee on Waste Disposal.

Kountz reported to the Committee recently that there are eight hazard areas on campus. An inventory has been made of the amount of chemicals on hand at each of these and discussions were held on procedures in emergencies caused by breakage, spillage, or explosion.

Kountz's advice has been sought 15 times since mid-December on dumping of waste materials. In all cases, he advised that the disposal of these waste materials would not be dangerous.

Two members have been added to the committee—Dr. P. F. English, professor of wildlife management, and Edward S. Kenney, University health physicist.

Incomplete Registration Figures Total 14,379

Registrations for the spring semester, as of Saturday noon, Feb. 2, totaled 14,379, with 12,003 on campus.

The enrollment shows gains over a year ago, although figures are still incomplete. At the corresponding time last year, 13,808 had registered and the final registration was 14,433.

The final figure for fall registration in this academic year was 16,045. It is usually true that fall semester registration is higher than that of spring semester.

Announce Establishment of Scholarships and Grants

A \$500 scholarship for a freshman entering the field of fuel technology has been established by the Pittsburgh Consolidation Coal Company. It will begin with the fall semester. If the student maintains a satisfactory scholastic average he may qualify for renewal of the award.

* * *

To support research in the physical properties of high polymers, a \$3,000 grant has been made to the department of physics by the E. I. DuPont de Nemours and Company. Faculty members doing research in this field include Dr. John A. Sauer, professor and head of the physics department; Dr. Edwin R. Fitzgerald, associate professor, and Drs. Richard Work and Nicholas Fuschillo, assistant professors.

* * *

A grant of \$16,000 has been made by the National Science Foundation for research and training in computing applications, under the direction of H. I. Tarpley, professor of electrical engineering.

* * *

The Carnation Company has granted \$2,500 for research by members of the department of dairy science in volatile flavor compounds in evaporated and dried milks. Dr. Stuart Patton, associate professor of dairy science, will be in charge of the studies.

* * *

A grant of \$20,000 by the South Penn Oil Company will make possible basic research in petroleum recovery, with Dr. Robert L. Slobod, professor of petroleum and natural gas engineering.

Scholarship Fund Honors Late Trustee

A scholarship fund in memory of John N. Forker, trustee of the University from 1943 until his death last September has been established by members of the family and friends.

A student enrolling as a freshman in one of the engineering curriculums will be chosen for the award on the basis of high scholarship, good character, and financial need.

Mr. Forker was a 1907 graduate in mechanical engineering. He was named executive director of the General State Authority.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, Feb. 15

Meeting of the faculty of the College of Agriculture, 4:10 p.m., Room 109 Armsby Hall.

Saturday, Feb. 16

Basketball, versus West Virginia, 8 p.m., Rec Hall.

Sunday, Feb. 17

Chapel Service, 10:55 a.m., Schwab Auditorium, the Jewish and Christian Services, Rabbi Benjamin Kahn, speaker.

Vesper organ recital by Nancy Limberger, senior in music education, 4 p.m., Chapel.

Monday, Feb. 18

Faculty Luncheon Club, 12 noon, Dining Room "A", Hetzel Union Building. Dr. Robert T. Oliver, head of department of speech, on "Personalities and Problems of the Far East."

Mineral Economics Spring Seminar, 4:10 p.m., 121 Mineral Industries. Dr. M. L. Keith, professor of geochemistry, on "Geochemical Prospecting for the Nonferrous Metals."

Meteorology Seminar, 4 p.m., 218 Willard Hall, Dr. A. K. Blackadar, on "Meteorological Aspects of Entropy."

Color Slide Club meeting, 7:30 p.m., Mineral Sciences Auditorium. Michael A. Lynch, on "Making the Most of Your Color Camera."

Brotherhood Banquet, 5:30 p.m., ballroom of Hetzel Union Building. Speaker: Father Gustave Weigel, S.J., on "The Roll of Religion in American Society."

Tuesday, Feb. 19

Computer program, 7:30 p.m., Room 110 Electrical Engineering. Leonard Binstock, Ordnance Research Lab. W. S. Dye, tabulating division, and Dr. Donald Laird, PENNSTAC staff, will discuss computer facilities on campus.

Talk by Father Gustave Weigel, Woodstock College and Seminary on "Reason, Faith, and Morality" 4 p.m., the Chapel. Sponsored by the College of the Liberal Arts and the Inter-religious Affairs Committee.

Wednesday, Feb. 20

Forestry Convocation, 11 a.m., 121 Sparks. Walter Horning, forestry officer, and Robert Lovegren, placement officer, of the Bureau of Land Management, Department of Interior, Washington, D. C.

Thursday, Feb. 21

Graduate School Faculty meeting, open to faculty and graduate students, 4:10 p.m., 121 Sparks. Panel discussion, with Dr. M. A. Farrell, Dean H. K. Schilling, Dean Ben Euwema, and Dean J. R. Rackley, on "Social Science Research As I See It."

Analytical chemistry seminar, 1:10 p.m., 109 Osmond Lab. Dr. John R. Lotz, Mellon Institute, Pittsburgh, Pa., on "Assembly, Calibration, and Operation of Apparatus for Gas Chromatography."

Organ Recital Sunday

Nancy Limberger, senior in music education, will present the weekly vesper organ recital at 4 p.m., Sunday Feb. 17, in the Helen Eakin Eisenhower Chapel.

Brotherhood Banquet In HUB on Feb. 18

The Rev. Gustave Weigel, professor of ecclesiology at Woodstock College School of Divinity, Woodstock, Md., will be the speaker at the 4th annual Brotherhood Banquet on Monday, Feb. 18, at 5:30 p.m. in the ballroom of the Hetzel Union Building.

The banquet is sponsored by the Committee for Inter-Religious affairs. Tickets are available at the Helen Eakin Eisenhower Chapel or from members of the committee. The committee includes a number of students and Dr. John A. Mourant, professor of philosophy; Clifford A. Nelson, associate professor of accounting; and Dr. Robert K. Murray, associate professor of history. Tickets are priced at \$2.50.

Traffic Regulations Enforced All Hours

More strict enforcement of traffic and parking regulations on campus at night and over weekends was instituted this week.

The same regulations apply to these times, explains Walter H. Wiegand, director of the department of physical plant, as apply during class hours with the exception of those which limit parking in campus areas to holders of permits for the specific area, and which restrict student driving on Pollock Road.

Zones reserved for specific vehicles are available for general use at night and also on week-ends unless marked as 24-hour zones.

In particular, parking in service drives, along campus roads not marked for parking, or in any other areas where parking is not normally permitted are banned. Double parking is also prohibited, since any congestion or limiting of access to buildings is a violation of fire regulations.

Daytime regulations are in effect from 7:30 a.m. to 5:30 p.m., Monday through Friday, and 7:30 a.m. to 12 noon on Saturday.

Keith To Talk Before Mineral Econ Seminar

Dr. M. L. Keith, professor geochemistry, will be the second speaker on the 6th Annual Spring Seminar of the department of mineral economics on Monday, February 18, at 4:10 p.m. in Room 121, Mineral Industries Building. He will talk on "Geochemical Prospecting for Nonferrous Metals."

Dr. John D. Ridge, assistant dean of the college of Mineral Industries, opened the series last Monday, speaking on "Geology of the Major Nonferrous Metals."

Other speakers in February, March and April will include Dr. E. J. Moore, assistant professor of geophysics, A. W. Asman, professor and head of the department of mining; Dr. H. Beecher Charnbury, professor and head of the department of mineral preparation, Dr. H. M. Davis, professor of chemical metallurgy; Dr. E. W. Miller, professor and head of the department of geography; Dr. Ridge; and J. N. Hoffman, instructor in mineral economics.

Geology Symposium Begins Today

The eighth annual Geology Symposium, which begins today, will consider the potential contributions of the science of geology to the practice of highway engineering.

The opening program this morning will be presided over by Dr. B. A. Whisler, head of the civil engineering department, and will feature introductory talks by President Eric A. Walker, Robert A. Farley, deputy secretary of the Pennsylvania Department of Highways, and Frank C. Witkoski, also of the Department of Highways.

Others presenting talks during the technical sessions will include Edwin B. Eckel, U. S. Geological Survey; Dr. Carlyle Gray, Bureau of Topographic and Geologic Survey of Pennsylvania; Harmer A. Weeden, associate professor of civil engineering, and Dr. Frank M. Swartz, head of the department of geology.

Senate Minutes

MINUTES OF THE MEETING OF FEBRUARY 5, 1957

The University Senate met at 4:10 p.m. on February 5, 1957 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the January meeting were approved as printed in the Faculty Bulletin for January 11, 1957. One hundred forty-six senators signed the roll.

COMMUNICATIONS FROM UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: G. W. Brindley (A. W. Taylor), A. W. VanderMeer (G. M. Torkelson), W. S. Smith (R. D. Reifsnider), H. W. Higbee (C. D. Jeffries), H. B. Sprague (H. B. Musser), H. V. Walton (J. E. Nicholas), D. B. Swegan (C. M. Sykes), and E. R. Queer (W. E. Ranz).

A letter from R. G. Bernreuter, Chairman of the SENATE COMMITTEE ON COMMITTEES, stated that the Committee on Student Affairs had nominated, the Committee on Committees had recommended, and President Walker had approved the replacement of C. A. Swain for Iline Fife on the Subcommittee on Academic Honesty.

An excerpt from the official minutes of the Board of Trustees stated:

It was voted to approve two-year curricula in Medical Technology, in Production Technology, and in Surveying Technology, and to authorize the President of the University to award an Associate Degree to students who successfully complete the requirements therefore, as recommended by the University Senate.

The secretary stated that certain reports, studies, and summaries which went out from the office of the dean of admissions and registrar to all deans and department heads, from now on would also be sent to the elected members of the Senate.

The Vice President for Academic Affairs reported that at the meeting of the Board of Trustees in Harrisburg, Pa., on January 26, 1957, the following motion was unanimously adopted: that formal endorsement is given by the Board of Trustees of the report of the Senate of the University with regard to "the General Purposes and Obligations of The Pennsylvania State University," and that the faculty of the University is commended by the Trustees for the outstanding statement of educational principles and philosophy that the report embodies.

REPORTS OF STANDING COMMITTEES

R. B. Saylor, Chairman of the SENATE COMMITTEE ON CALENDAR, stated that his committee had no report for action at this meeting but would like to present a progress report:

The Calendar Policy Committee has under consideration a major calendar rearrangement to permit greater utilization of the physical facilities of the University. Institutional facilities are now being used at about 40% of capacity during the times when they could reasonably be used. In view of the expected heavy enrollment increases in the next decade, it seems imperative that more efficient use be made of the available physical facilities. Requests for funds for additional facilities are difficult to justify if present facilities are idle such a large fraction of the time.

The problem appears divisible into two major parts:

- Increasing plant utilization at times when utilization is already relatively high, namely during regular sessions. This is primarily a scheduling problem and only to a small degree a calendar policy matter.
- Increasing plant utilization at times when utilization is now low, particularly during the summer months. This is to a large degree a calendar policy matter.

The Calendar Committee has been requested to consider the possibility of achieving greater plant utilization by having the University change to the Quarter System, a Trimester arrangement, or some other.

We are in the process of trying to find an answer to this question. We may be calling upon other members of the Senate to help us by appearing at meetings to give their opinions. Anyone wishing to volunteer thoughts on the subject may convey them to any member of the Committee.

The complete report is on file in the office of the secretary.

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, moved the adoption of the report which had been distributed with the agenda as Appendix

"A". The motion was seconded and passed. The report is on file in the office of the secretary.

H. K. Schilling, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report which had been distributed with the agenda as Appendix "B". He suggested some changes in wording and moved the adoption of the report as amended. The motion was seconded and passed. The report as adopted follows:

Recommendation of the Committee on Educational Policy Regarding Programs Leading to Associate Degrees

The University now offers several two-year curriculums leading to an Associate Degree. The number of such curriculums has recently increased, causing the Committee on Courses of Study to ask for a statement of educational policy by which Associate Degree curriculums and courses may be examined.

An inspection of the various curriculums shows a considerable variation in subject matter and end purposes. The facilities for instruction vary in different locations, such as: the main campus, centers offering both baccalaureate degree curriculums, and those offering only one or the other.

The curriculums now showing the large majority of all Associate Degree students have been developed by the College of Engineering and Architecture in response to a demand recognized by American Society for Engineering Education and Engineers Council for Professional Development as a national need in higher education.

The Committee on Educational Policy feels that at this time there is need for only a very general policy regarding such programs, and that any more detailed policy cannot be established until the University has had more experience operating associate degree programs.

I. *University Educational Policy*
A general statement of the Function of the University appears (in part) as Item IV (1) of a Revised Report of the Educational Policy Committee dated October, 1954. "The primary duty of the University is to maintain an instructional program that provides educational opportunities, professional as well as nonprofessional, at all levels of higher education and adult education, wherever within the Commonwealth need for such opportunities exist."

It is therefore proposed that the University should offer two-year programs in terms of the policy statement given above.

II. *Limitations on the Associate Degree Curriculums*

The Associate Degree Curriculums shall continue to be governed in all respects by the University Senate as is the case for Baccalaureate degree curriculums.

- Students accepted in such curriculums shall be high-school graduates who, for enrollment, may be required to submit specified subject matter and evidence of capacity.
- The Associate Degree curriculums shall be designed as complete educational entities to fulfill specific and limited ends for which the educational need in the Commonwealth may be demonstrated.
- The subject matter for the Associate Degree may be regularly approved undergraduate courses or courses specially designed for the purposes of the curriculums. In the latter case, the subject matter of the courses shall be of University calibre—that is, it shall be clearly con-

sistent with the level of the corresponding material offered in undergraduate courses.

- All Associate Degree candidates shall fulfill English requirements as represented by E Cmp 1, E Cmp 5, or Spch 200.
- Associate Degree curriculums shall be comprised of four semesters of normal undergraduate credit loads, with a minimum of 60 credits.

III. *The Location of the Facilities*

Because of the present and predicted strain on the facilities of the main campus, Associate Degree work should not be conducted on the main campus unless importance and cost conjoin to make such instruction necessarily a part of main campus activity.

President Walker then gave a resume of the actions of the Board of Trustees at its recent meeting which included: made reference to the financing of building of new residence halls; approved plans for a new unit of mens residence halls on Park Avenue, and for a Home Economics Building and Military Science Building; approved a policy for the naming of buildings and streets, a plan for required inspection of student housing in the Borough as soon as feasible, a counseling fee of \$17.50 for required testing and counseling for all freshman students in the baccalaureate and associate degree programs, the idea of giving advice to the IFC Buying Program; accepted the policies of the University as stated earlier by Mr. Dennis; reaffirmed our policy that centers and extension centers are part of our University; elected a new executive committee of the Board; rescinded the name "Hall of Americas" for the new building on Pollock Road, now to be known as Boucke Building; named the present main engineering building, Sackett Building, and the new engineering building, Hammond Building; authorized the appointment of a number of administrative committees which parallel, on the one hand, most of the standing committees of the Senate, and on the other hand, most of the standing committees of the Board of Trustees.

Pres. Walker stated he was pleased with the personnel actions taken by the Board: the naming of P. C. Weaver, Dean of Summer Sessions; W. E. Kenworthy, Executive Assistant to the President; S. K. Hostetter, Treasurer; creation of four vice presidencies: L. E. Dennis for Academic Affairs, C. S. Wyand for Development, M. A. Farrell for Research, and a vice president for Business Administration who has not been named as yet.

The Trustees left the University Administration with two major tasks: (1) a study of our fee structure, (2) a study of the cost of educating a student on the campus and at the Centers.

President Walker stated that a sum of \$40 had been contributed to be given as a recognition of superior teaching at the undergraduate level. He stated that he was raising this amount to permit a prize of \$500, plus a plaque, to be given as a recognition of superior teaching at the undergraduate level, and hopes to be able to make it an annual award. He appointed the following committee to write up specifications for the award and stated the committee would be discharged as soon as the specifications were written: J. J. Rubin, Chairman, J. J. Schanz, H. V. Walton, L. E. Fouraker, J. W. Dunlop, and Christine Salmon.

The next regular meeting of the Senate will be on March 7 in the Assembly Room of the HUB with the agenda being distributed on February 21, 1957.

The meeting adjourned at 4:58 p.m.

C. O. Williams
Secretary

Radio Station Display Showing at Waring Hall

Historical information, as well electronic devices currently used, of amateur radio station W3YA, is on display in the lobby of Waring Hall.

The station, which dates from 1909, has a long history of service to the State and nation and has served in instruction work for many years.

Many of the world-wide contacts made by the station over the years are indicated on a large map. Featured also is the transmitter with which daily contact was maintained with the Kon-Tiki expedition of 1947. Awards and commendations received by the station for its various services, which included many round-the-clock operations in times of disaster, are also on display.

The display will continue until Feb. 20.

Hungarian Students To Benefit From Collections

The University Committee on International Understanding, through its committee on the Hungarian Students Assistance Fund, has declared Sunday and Monday, Feb. 17 and 18, as collection days for the fund. The two days fall within Brotherhood Week.

Contributions on behalf of the seven Hungarian students on campus, for aid in living expenses such as clothing, textbooks, and general maintenance costs, will be receivable at the University Chapel Service of Worship on Sunday morning, and at the office of the committee chairman, Amos Shaler, professor of metallurgy, Room 5, Mineral Sciences Building.

Checks should be made payable to "the Hungarian Students Assistance Fund."

Items of Interest

William H. Armstrong, professor of industrial engineering, is author of the textbook "Machine Tools for Metal Cutting," published by McGraw-Hill. The book deals with machine tool laboratory equipment and manufacturing processes.

* * *

Ina Padgett, professor of foods and nutrition, left today by plane for a four-month world tour which will carry her to Hawaii, Japan, the Philippines, India, Greece, Denmark, and Scotland.

* * *

Franklin H. Cook, professor of business law, is author of an article on "The Changing Expense Pattern of the Electric Utilities" in the Jan. 31 issue of "Public Utilities Fortnightly." The article deals with costs of operating electric generating plants.

* * *

An article and a book review by Dr. Hugh Chapman, Jr., both appear in the current issue of *Hispania*. The article, "Two Poetic Techniques," compares poems of Lorca and Goethe, of similar theme from different epochs. The book review is devoted to "Cuentos Hispanoamericanos de ayer y de hoy" by Ferdinando D. Maurion and Joseph G. Fucilla.

* * *

Dr. Frances M. Andrews, professor of music education has been appointed to the board of editors of the *Music Educators Journal*, official publication of the Music Educators Conference and national magazine of the federated music educators associations.

* * *

Dr. Albert F. Buffington, professor of German, was recently featured speaker at the seventh annual assembly and feast of the Delaware Groundhog Lodge, Newark, N.J. The annual assembly of the Pennsylvania Dutch of Delaware, is called to pay tribute to the groundhog.

* * *

Dr. W. Conard Fernelius, professor and head of the department of chemistry, currently on leave studying under a Guggenheim Fellowship at the University of Oxford, will lecture on "Polonium" at a joint meeting of the Oxford University Alembic Club and the Royal Institute of Chemistry.

* * *

A lecture entitled "Understanding the Nature of Mushroom Diseases" was given by Dr. Leon Kneebone, associate professor of botany, yesterday at the meeting of the Canadian Mushroom Growers' Association, at Toronto, Canada.

Reen Honored By Roadbuilders

In recognition of his work as president of the educational division of the American Roadbuilders Association, Calvin G. Reen, professor of civil engineering, was presented with a pen and pencil set at the annual meetings of the Association in Chicago, Ill., recently.

At the same meeting, William H. Gotolski, instructor in civil engineering, presented a progress report on "A Suggested Minimum of Standard of Employment Practices For Highway Engineers." Gotolski is chairman of the Association's Committee on Recruitment and Placement of Highway Engineers.

J. Herbert Moore and Harmer A. Weeden, associate professors of civil engineering, also attended the meeting.

Meetings Coming Up

Forestry convocation, 11 a.m., Feb. 27. David Jarden, Huntingdon Valley, Pa., will give an illustrated talk in "Ojibway Country."

* * *

Faculty meeting, College of Physical Education and Athletics, 7 p.m., Feb. 25, Room 241, Recreation Building.

* * *

Plant Science Club meeting, Feb. 26, 7:30 p.m., 111 Tyson Hall. Dr. S. Lewis Land, professor of industrial engineering, on "Penn State's Program of Technical Assistance for Taiwan."

Lecture on Paris To Be Held Feb. 19

A lecture sponsored by the Romance languages department will be given at 8 p.m. Tuesday, Feb. 19 by Ernst Erich Noth editor and manager of *Books Abroad* and professor of comparative literature at the University of Oklahoma. The lecture, to be given in Room 121, Sparks, will be on "Paris: A Writer's Workshop."

Katz Painting Now In HUB Exhibition

An exhibition of paintings by Alex Katz, of New York and Camden, N.J., is now on display at the Hetzel Union Building and will continue there until Feb. 24.

Katz studied at the Skowhegan Art School and has exhibited previously at galleries in New York and Bowdoin College.

Father Weigel To Talk In Chapel, Sunday

Father Gustave Weigel, S.J., of the Woodstock College and Seminary, Woodstock, Maryland, will speak on "Reason, Faith, and Morality" in the Helen Eakin Eisenhower Chapel at 4 p.m., Tuesday, Feb. 19. The talk is sponsored by the College of the Liberal Arts and the Interreligious Affairs Committee.

Changes Made In Train, Air Schedules To Campus

Further suggestions for travel schedules were made today by Miss Josephine Groesbeck, travel coordinator.

Miss Groesbeck reports that it is difficult and at times impossible to reserve a seat on the New York to Lewistown train "The Trailblazer," which leaves New York at 5:10 p.m. Instead, she advises, travelers should take train No. 153, "The Congressional," which leaves at 4:30 p.m. to Philadelphia then change at the 30th St. station to the "Red Arrow" (No. 69) which leaves at 6:20 and arrives at Lewistown at 9:40 p.m. The bus to State College meets this train on Fridays and Sundays only.

An alternative is the "Manhattan Limited" (No. 23), which leaves New York at 2:05 p.m. and arrives at Lewistown at 6:39. The bus meets this train daily.

Pullman fares, Miss Groesbeck advises further, were increased seven per cent on Jan. 1, and first-class and coach passenger fares by five per cent Jan. 9.

Allegheny Airlines established air service between Washington, D.C. and Harrisburg effective Feb. 1. Passengers from State College to Harrisburg or Washington may leave Black Moshannon airport on Flight 608 (except Saturdays) at 7:43 p.m., arriving at Williamsport at 8:15. Flight 736 leaves Williamsport at 9:14 p.m., arriving in Harrisburg at 9:43 p.m. and in Washington at 10:20 p.m. Flight 171 leaves Washington at 8 a.m., arrives in Harrisburg at 8:38 and in Williamsport at 9:19. Flight 603 leaves Williamsport at 10:11 a.m. and arrives at Black Moshannon airport at 10:46 a.m. Other flights do not connect with those to State College.

Miss Groesbeck reports that in January 166 faculty and staff members and 19 guests of the University used the services of the Transportation Division. She again asks that, where possible, information, scheduling, and reservation requests be made in writing.

Plans Approved For Military Science

Plans for a three-story military science building to be constructed by the General State Authority on Three-Mile Road east of the flower gardens have been approved by the Board of Trustees.

The building will provide office and classroom facilities for the departments of military science and tactics, naval science and air science, as well classroom space.

Architects are now proceeding with final plans, expected to be ready by August. Construction will start not later than January, 1958, and the building is expected to be ready for occupancy by the fall semester, 1959.

The main building will be 284 feet long, 58 feet wide. A one-story unit for housing of heavy ordnance and other special equipment, will be built south of the main unit. It will be 83 feet by 87 feet.

More Computer Talks Scheduled For Spring

Talks by William S. Dys, tabulating division, Donald Laird, electrical engineering department, and Leonard S. Binstock, Ordnance Research Laboratory, will feature the program of Tuesday, Feb. 19, in the continuing discussions on digital computers and related equipment. The three staff members will discuss computer facilities on campus, at 7:30 p.m. in Room 110 Electrical Engineering.

In future programs this spring, William Cahill, of the National Bureau of Standards, will talk on some of the problems solved with computers at the Bureau, on Mar. 8; two speakers at dinner meetings of the Society for the Advancement of Management will talk on computers, Mar. 21 and Apr. 18; and speakers from Wright Aircraft Development Command, Electrodata Corporation, Continental Oil Company, Humble Oil Company, and General Electric will talk on the general subject, on as yet unannounced dates.

Housing Inspection Plan Approved by Trustees

A policy requiring all men students living off campus to live in places which have been inspected and approved for conditions of health, sanitation, fire safety, minimum housing requirements, and terms and conditions of occupancy was approved by the Board of Trustees at its recent meeting.

An expansion of the program started in 1953 with a voluntary inspection of off-campus facilities, the policy will be put into effect as rapidly as feasible. It applies to fraternity houses as well as any other accommodations.

The new policy is expected to help the University determine what facilities of a satisfactory nature are available in the area to estimate future needs. This information is considered essential in view of the fact that housing is one of the factors limiting enrollment.

Thaden Receives Book On Russian Church Icons

A book from the Soviet Union on Russian icons has been received by Dr. Edward C. Thaden, assistant professor of history, sent by the secretary of the Old Believers' Cathedral in Moscow. The book came as the result of a promise made to Dr. Thaden by the secretary with whom Dr. Thaden spoke on his visit to Russia last summer.

Hrom

The Old Believers, who broke off from the official Russian Orthodox Church in the 17th century, refuse to have icons in their churches which show any influence of modern secular art. The Old Believers were systematically persecuted by the official church and the Russian state.

Dr. Thaden visited the Cathedral expressly to see its icon collection. The book he received is the first on the art of the Old Believers' church ever published.

Harvard Business Ad Representative Here

Students interested in enrolling in the two-year program leading to a master of business administration degree at Harvard University will have the opportunity to talk to William Warren, of the dean's office of the school on Tuesday, Feb. 26. There are no prerequisites for entrance to the program either in courses or in undergraduate major.

Arrangements to discuss the program may be made with Donald M. Cook, assistant in the Placement Service, 112 Old Main.

Hosler Reports On Snow, Ice Formation

A report on research studies aimed at predicting more accurately when snow will fall and what type of snow it will be was given by Dr. Charles L. Hosler, professor of meteorology, at the national meeting of the American Meteorological Society recently.

Dr. Hosler conducted experiments in which he has set the limiting conditions of temperature and vapor pressure under which ice crystals in clouds will stick to one another on contact.

At the same meeting, Raymond DeLand, fellow in meteorology, presented a paper on "Comparison of Convective and Mechanical Turbulence." The information on the nature of turbulence in lower atmospheres is useful in aircraft design and operation and in prediction of atmospheric pollution dispersal.

Grant Supports Study Of Milk Flavor Changes

A research project in the department of dairy science, supported by a one-year grant of \$2,500 from the Carnation Company, is in process to investigate why flavor changes occur in the processing and storage of dried and evaporated milk to make them unsuitable for beverage purposes.

In charge of the program is Dr. Stuart Patton, associate professor of dairy science, with aid from graduate student Noble F. Wong.

Films Selected for Preview

The Audio-Visual Aids Library has requested the following films for preview. Faculty members desiring to be notified when prints arrive should call Extension 2051.

"The Fish and the Fisherman" (Russian folklore narrated in English)
"Basic Motion Picture Technique"
"Wild Turkey"
"Fundamentals of Rifle Marksmanship"
"How to Shoot a Rifle"
"Lost Hunter"
"Our Wildlife Resources"
"Swamp" (Conservation)
"Sicily, Island of the Sun"
"New Ways of Seeing" (designed for the beginner in art)
"Lands and Waters of Our Earth"
"Social Studies Teaching Techniques"
"The 4-H Trail"
"Natural Enemies of Insect Pests"
"Three R's Plus" overall view of the teaching program
"Fairness for Beginners"
"The Legislative Reporter"
"Using the Laboratory (Chemistry and Physics)"
"Helen Keller in Her Story"
"The Gallant Little Tailor" (animated fairy tale)

Caldwell Reports On Puerto Rico Lectures

A great interest in and need for assistance in solving industrial management problems in Puerto Rico were reported by J. William Caldwell, associate professor of industrial engineering, who recently returned from the Islands after a lecture series at the University of Puerto Rico in January.

"The growth of industry in Puerto Rico," Caldwell reports, has been rapid and steady. However, they have many management problems because of a lack of supervisory personnel in their new factories."

Caldwell, who was invited to present the lectures by Robert A. Hussey, formerly business manager of the Ordnance Research Laboratory who now heads the industrial engineering department at the University of Puerto Rico, talked before a group which included faculty and students of the University as well as managers of industries. He reported that his discussions were well received and may be the pilot project of further lecture series.

Sugar has been Puerto Rico's chief industry for many years but in recent years the needlecraft and distillery industries have been expanded. The government, Caldwell reports, has pressed for new industries of many types.

While in Puerto Rico, Caldwell visited with the Husseys as well as with William Jeffrey, former Penn State soccer coach, who is now professor of industrial engineering at the University of Puerto Rico.

Social Science Panel Features Graduate Meeting

A panel discussion on the subject "Social Science Research As I See It" will be the program of the regular meeting of the Graduate School Faculty, Thursday, Feb. 21, at 4:10 p.m., Room 121 Sparks.

Dr. M. A. Farrell, vice-president for research, and Deans Schilling (Graduate School); Euwema (Liberal Arts); and Rackley (Education) will be the panelists.

The meeting is being held jointly by the Graduate School and the Social Science Research Center and is open to all graduate students as well as faculty members.

Management Training Course Being Held

Intensive training sessions are being conducted by members of the management training staff this semester for foremen of the Pittsburgh Coal Co.

Robert B. Hewes, associate professor of mineral industries extension, Dr. Everett Alderman, associate professor of psychology at McKeesport Center, and James A. Stranahan, Jr., assistant professor of industrial engineering, also at McKeesport, are instructors for the course.

All day sessions, four days a week, from February through April, are being held at Washington, Pa.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Saturday, Feb. 23

Gymnastics, versus Army, 8 p.m., Rec Hall.

Sunday, Feb. 24

Chapel Service, Schwab Auditorium, 10:55 a.m. Dr. Edmund A. Steimle, Mount Airy Theological Seminary, Philadelphia, Pa.
Hillel Lecture Series, Hillel Foundation Center, 8 p.m. Dr. J. Mitchell Morse, on "John Milton: Areopagitica."

Monday, Feb. 25

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. John R. Rackley, dean of the College of Education, speaker.

Meeting, faculty of the College of Physical Education and Athletics, 7 p.m., Room 241 Rec Hall.

Mineral Economics Seminar, 4:10 p.m., Room 121 Mineral Industries. Dr. E. J. Moore, on "Electrical Methods of Prospecting For The Nonferrous Metals."

Meteorology Seminar, 218 Willard Hall, 4 p.m. Edward Welser, on "Progress Report on a Climatology of Pennsylvania."

Meeting, faculty of the College of Home Economics, 4:10 p.m., Room 14, Home Economics.

Tuesday, Feb. 26

Economics Seminar, dining room "C", Hetzel Union Building. Alice Warne on "Problems of Business Operation Arising Under Federal and Pennsylvania Labor Relations Laws." Jacob Kaufman, discussant.

AAUP meeting, 7:30 p.m., Mineral Sciences Auditorium. Panel discussion on "Improvement of College and University Teaching" with Dr. J. R. Rackley, as moderator, and Jessie Bernard, Hugh S. Brown, Ralph W. Condee, Hugh M. Davison, and Francis Whaley, as panelists.

Physics Colloquium, 4:10 p.m., Room 117 Osmond. Dr. Roderick L. Hines, physics department, Wayne University, on "Radiation Effects of Positive Ion Bombardment."

Plant Science Club meeting, 7:30 p.m., Room 111, Tyson Hall. Dr. S. Lewis Land, on "Penn State's Program of Technical Assistance for Taiwan."

Wednesday, Feb. 27

Forestry convocation, 11 a.m., Room 121 Sparks. David Jarden, Huntingdon Valley, Pa., an illustrated lecture on "Ojibway Country."

Basketball, versus Lehigh, 8 p.m., Rec Hall.
Rev. R. D. Abernathy, pastor of First Baptist Church, Montgomery, Ala., will talk on the general theme of "The Walk To Freedom", 8 p.m., Schwab Auditorium, with specific topic "Our Long-Range Goals," sponsored by the University Christian Association and others. He will also talk at a dinner meeting at 5:30 p.m., in the State College Methodist Church.

Thursday, Feb. 28

Seminar on the use of the digital computer, 8 to 10 p.m., Room 219, Electrical Engineering. The first of several meetings for faculty and graduate students.

Freshmen Required To Take Testing

All freshmen offered admission for the fall semester will be required to participate in the pre-registration and counseling program. There will be a charge of \$17.50 for the program, which also provides for the continuation of counseling throughout the freshman year.

The testing program is designed to indicate whether the student has chosen a field of study in which he will have an enduring interest; whether he is likely to make satisfactory grades in his chosen field; and whether he should plan on a two-year or four-year program or a field that would require graduate work. It will also indicate whether the student should have extra help in mathematics, English, or reading before starting the regular curriculum.

The tests, explains Dr. Robert Bernreuter, director of the division of counseling, will begin April 13 in 41 cities in the Commonwealth. Results of the tests will be outlined to the freshmen during an interview this summer at the main campus or at one of the centers.

Last year 30 per cent of the incoming class elected to participate in the program of testing and counseling and of these 310 changed their previous choice of curriculum.

Ion Microscope Research Extended By Air Force

Further improvement of the ion microscope by its inventor, Dr. Erwin W. Mueller, research professor of physics, may be possible with the extension for two years of a contract with the Air Research and Development Command of the U.S. Air Force, effective July 1.

A sum of \$64,522.74 has been allocated, bringing to \$178,646.40 the amount provided for the project under which the microscope has been developed since 1953.

The ion microscope is the most powerful microscope in the world, with a magnification of 2 million times.

Montgomery Minister Gives Two Talks Feb. 27

The Rev. Ralph D. Abernathy, pastor of the First Baptist Church, Montgomery, Ala., will give two talks on the general theme of "The Walk To Freedom" on Wednesday, Feb. 27.

At 5:30 p.m., a dinner meeting in the State College Methodist Church will be held at which Rev. Abernathy will talk on "How It All Started." In Schwab Auditorium at 8 p.m., he will talk on the theme "Our Long-Range Goals."

Rev. Abernathy's visit is sponsored by the University Christian Association, the Unitarian Fellowship, and the State College Friends Meeting.

A leader and vice president in the Montgomery Improvement Association, Rev. Abernathy is one of those ministers whose homes were bombed in January as a result of the racial unrest in the city.

Senate Committee Holds Special Meeting

The Committee on Organization and Operation of the University Senate invites any staff member who desires to appear before the Committee to make suggestions to come to the meeting on February 27, 1957. It will be held in Room 1, Weaver Hall at 7:00 p.m. and will adjourn at 9:00 p.m. Those interested in attending notify the office of Agricultural Economics and Rural Sociology, phone Ext. 704.

Seminar On Computer Begins Thursday

The first meeting of a seminar on the use of the digital computer facility, PENNSTAC, will be held Thursday, Feb. 28, from 8 to 10 p.m., in Room 219, Electrical Engineering.

The seminar will be directed in attempt to develop in a direct and concise way the minimum information needed to solve problems of moderate complexity on this computer.

For further information, contact Dr. Donald T. Laird, Room 4, Electrical Engineering, or call Extension 2142.

110 Willard Hall

Ruth I. Kapp.

Feb. 22, 1957

PENNSYLVANIA STATE COLLECTION

Space Flight Problems Near Solution Believes Dr. Hipsh

The intriguing possibility of flights to the moon or the planets caught the fancy of Dr. Harold M. Hipsh, professor and head of the department of aeronautical engineering, even as a youngster. Science fiction literature displaced the usual schoolboy Tarzan and wild west books.

In the intervening years, Dr. Hipsh's interest has strayed little from that of his earlier years. If the issue were placed before him, he would be delighted to be a passenger on the first flight to outer space.

"The trip would not be overly hazardous," he explains, "if all the technical phases were carried out properly."

Space flight is technically possible today and only cost—figured at several billion dollars—poses the practical barrier to its immediate realization.

Key to space travel is rocket propulsion, still in its relatively infant stages. But the know-how to develop speeds up to the 25,000 mile-per-hour limit considered necessary to escape the earth's gravitational pull can be accomplished by dividing the proposed flight into two stages.

The first stage, at a speed of 18,000 miles per hour, would take space travelers to a man-made satellite stationed 800 to 1,000 miles above the earth. The second stage would be made from the satellite to the moon or planets at a speed of 7,000 miles per hour.

It is considered entirely practical to

build a satellite in space, although a major problem exists in carrying the supplies needed to maintain man in space. Presumably a small satellite would be built first.

Scientists agree that the moon would be the first destination of space travelers, and that it would eventually become a "way station" for flights to the planets.

"The human problems in the extreme environment of outer space can be conquered," Dr. Hipsh says. "It is now possible to construct a pressurized structure containing a sufficient oxygen supply. The tolerance of man for the accelerations necessary has already been proved by military jet pilots.

"Man's existence in a gravity-free environment can also be solved, some scientists believe. He may feel some nausea and psychologically he would have to be adjusted to the environment. Small animals sent to high altitudes in rockets have suffered no permanent changes.

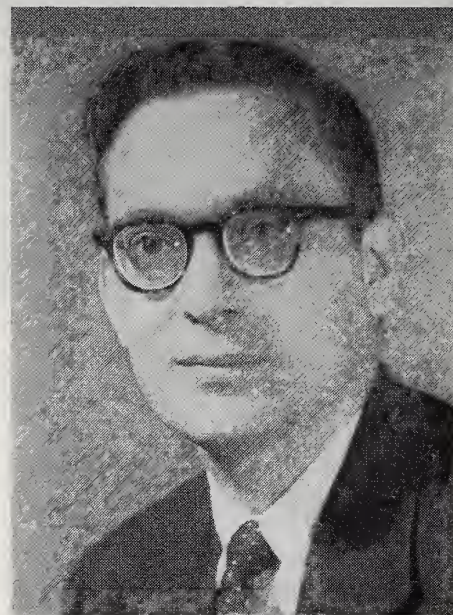
"Nor is there much danger from cosmic radiation at high altitudes. Two army balloonists, Capt. Orvil Anderson and Capt. Albert Stevens reached an altitude of over 72,000 miles (nearly 14 miles) as early as 1935 without showing effects of cosmic radiation."

The present published altitude record was made last fall in a rocket plane by Col. Frank Everest. He reached 126,000 feet, about 24 miles. Another pilot is

engineering research and bacteriologist for the project, is attempting to determine the minimum requirements of self-liquidating bacteria so that future disposal plants may be designed scientifically to suit their needs. Bacteria in a sewage plant have need of a balanced diet of protein, fat, sugar and oxygen, as well as water and a proper temperature. They obtain their food from the sewage waste, assimilate it, and produce more bacteria. Since these bacteria are cannibalistic, they can dispose of their own excess population.

Charles Forney, Jr., instructor in civil engineering and project engineer, has designed a series of six aerated culture tanks, each holding 60 gallons. He has also designed a separation tank used to settle out the bacteria from the purified liquid discharge.

Powdered milk is being used as a substitute for sewage since it contains the same basic chemical ingredients of waste matter. Bacteria already present initiate the purifying process. The reproductive and destructive processes then take place and the original number of necessary bacteria remains the same after purification has been accomplished.



DR. HAROLD HIPSH
Cost Only Barrier

presumed to have reached the same altitude, but he crashed.

Neither does there appear to be any danger in a space ship being struck by a meteorite of such size as to do great damage. Hipsh believes that perhaps once in a couple million years would such harm come to the ship.

Returning to earth poses no particular problems, either, he believes, since the return trip would be accomplished in the same manner that the outward journey was made. Rockets would be used to slow the ship as it neared the earth.

Launching of the first man-made earth satellite during the Geophysical Year, in 1958, is only the first step in ultimate space travel. The first satellite, of course, will be unmanned but contain much measuring equipment to give scientists additional information. It would not serve as a base for further exploration.

Dr. Hipsh, who obtained his degrees from California Institute of Technology, has been at various times aerodynamicist for General Motors Corp., senior research engineer, Hughes Aircraft Co., senior engineer for Nuclear Engineering for the Propulsion of Aircraft, senior design engineer and later supervisor of the propulsion research group at Convair, and senior engineer of the missile section of Bendix Products Division. Much of this background is related to space travel, if indirectly.

Coupled with a natural curiosity, Dr. Hipsh's reading on aeronautical subjects, even of the popular nature, compels him to be optimistic about the future of space travel. But even he hasn't set a day for the first flight.

"Progress toward human space flight will be accelerated if military advantages and national security are felt to be of sufficient importance to it. The tremendous cost will probably be an insurmountable barrier to any private efforts in the near future."

Smaller, More Efficient Sewage Plant Sought

A smaller, more efficient and economical sewage disposal plant is the goal of research in the department of sanitary engineering working under a grant of \$21,148 from the U.S. Public Health Service.

R. Rupert Kountz, professor of sanitary engineering, is directing the program, which he hopes will ultimately result in a design of a sewage treatment plant to aid communities alleviate the problems of disposal.

A working model has already been constructed using principles of destroying waste materials with self-liquidating bacteria.

"The process of sewage treatment," says Kountz, "is biological. This has been a recognized fact for many years. The rapid growth of communities, however, could not wait for complete technical information on sewage treatment."

The use of self-liquidating bacteria, Kountz explains, would eliminate currently used digestion and sludge handling processes.

Robert R. Ernst, research associate in

Items of Interest

Dr. William C. Bramble, David P. Worley, and Rex E. Melton, all of the School of Forestry, and William J. Stambaugh, instructor in botany, all took important parts in the annual meeting of the Society of American Foresters in Baltimore, Md., last week.

Dr. Clifford C. Wernham, professor of plant pathology, will address the Northeastern Corn Improvement Conference in New York on Mar. 1, on the topic "Corn Culture in South Africa."

Four members of the School of Journalism staff attended and participated in the 1957 Display Advertising Conference in Harrisburg last week. They were I. W. Cole, director of the School; Donald W. Davis, head of the department of advertising; Roland L. Hicks and Richard O. Byers, both assistant professors of journalism in the department of advertising.

The use of shock waves as a tool in the study of high temperature reactions was discussed by Dr. Howard B. Palmer, assistant professor of fuel technology, at a colloquium of the chemistry department at Syracuse University recently.

Raymond A. Farwell, Jr., assistant professor of industrial engineering, is conducting a 32-hour class in industrial psychology in Lewistown for the Industrial Management Club of Central Pennsylvania.

Dr. Clark C. Spence, instructor in history, is the author of three articles published recently: "When the Pound Sterling Went West," in the *Journal of Economics History*; "The Mining Bureau of the Pacific Coast," in the *California Historical Society Quarterly*; and "Colorado's Terrible Mine: A Study in British Investment", in the *Colorado Magazine*.

Dr. Richard D. Schein, assistant professor of plant pathology, presented an invitation paper to the National Barley Improvement Conference, at the triennial meetings at Fort Collins, Colorado, recently.

Gordon R. Smith, instructor of English composition, is bibliographer of "The Shakespeare Letter", published at Kent University.

An article by Dr. Joseph Marin, head of the department of engineering mechanics, appears in the Feb. 7 issue of *Machine Design Magazine*. It is titled, "Significance of Material Properties in Design for Fatigue Loading," and is the second of a series of articles by Dr. Marin.

Panel Discussion Features AAUP Meeting Tonight

A panel discussion on the subject "Improvement of College and University Teaching," will be the highlight of the program of the meeting of the Penn State Chapter of the American Association of University Professors, Friday, Feb. 22, at 7:30 p.m., in the Mineral Sciences Auditorium.

Dr. John R. Rackley, dean of the College of Education, will be the moderator and the panel will include Jessie Bernard, professor of sociology; Hugh S. Brown, associate professor of higher education; Ralph W. Condee, associate professor of English literature; Hugh M. Davison, professor of education; and Francis L. Whaley, assistant professor of psychology.

The program is open to the faculty and the general public. A business meeting of the chapter membership will follow the program meeting.

Climatology Subject Of Meteorology Seminar

Edward V. Welser, graduate student in meteorology, will give a progress report on the climatology of Pennsylvania at the Meteorology Seminar, Monday, Feb. 25, at 4 p.m., in Room 218, Willard Hall.

Moore Speaker On Mineral Econ Seminar

Dr. E. J. Moore, assistant professor of geophysics, will speak on "Electrical Methods of Prospecting for Nonferrous Metals" on the program of the spring semester Mineral Economics Seminar, on Monday, Feb. 25, at 4:10 p.m., Room 121 Mineral Industries.

This is the third talk on the Seminar program, to which students and faculty of all colleges are invited. The following Monday, A. W. Asman, head of the department of mining, will be the speaker.

Labor Laws Subject Of Economics Seminar

Alice Warne, research associate in the Bureau of Business Research, will speak on "Problems of Business Operation Arising Under the Federal and Pennsylvania Labor Relations Laws" on the Economics Seminar program of Tuesday, Feb. 26, at 12 noon, in dining Room "C" of the Hetzel Union Building.

The Seminar is open to all interested faculty members. Meal service is from the cafeteria.

Land To Speak At Plant Science Meeting

Dr. S. Lewis Land, head of the department of industrial education, will talk on "Penn State's Program of Technical Assistance for Taiwan" at the meeting of the Plant Science Club on Tuesday, Feb. 26.

The Club meets at 7:30 p.m. in Room 111, Tyson Hall and all interested persons are invited to attend.

Maple Room, Cafeteria Food Service Resumes

Food service in the Home Economics cafeteria and Maple Room, prepared by classes in hotel and institutional administration, has resumed after the mid-year break. Cafeteria lunch hours are 11:50 to 12:30, Monday through Friday. Dinners are served Tuesday, Wednesday, and Thursday from 5:30 to 6:30 p.m. There is no service in either the cafeteria or Maple Room on Monday evenings.

Camp, Resort Work Open For Interested Faculty

Faculty members interested in work in camps and resorts in the summer months are advised that a number of attractive openings exist. More information about these positions may be obtained from J. J. Huber, assistant in charge of the Student Employment Service, 112 Old Main, Ext. 2049.

Specific experience in camp work is not required in many of these positions, Huber advises. Mature persons with an interest in this type of work are sought by these camps and resorts, with positions open in 18 states, at present.

Reservations Required For Handball Courts

The demand for the use of the handball courts in Recreation Building has been so heavy that a reservation plan has been instituted by the College of Physical Education and Athletics.

Faculty and staff members have been encouraged to make use of the handball courts.

Reservations may be made for the courts by calling Ext. 2569 on Monday, Wednesday, and Friday between 4 and 6:30 p.m., and on Tuesday, Thursday and Saturday between 1 and 6:30 p.m.

Courts will be reserved on a one-hour basis, starting on the hour and reservations may be made up to 48 hours in advance. If players are late, the court will be held for 10 minutes, the time to be included in the hour. If players are waiting, only foursomes may play.

Films Selected For Preview

The Audio-Visual Aids Library has requested the following films for preview. Faculty members desiring to be notified when prints arrive should call Extension 2051.

"The Fish and the Fisherman" Russian
 "Basic Motion Picture Technique"
 "Wild Turkey"
 "Lost Hunter"
 "Our Wildlife Resources"
 "Swamp"
 "Sicily, Island of the Sun"
 "New Ways of Seeing" (designed for the beginner in art)
 "Lands and Waters of Our Earth"
 "Social Studies Teaching Techniques"
 "The 4-H Trail"
 "Natural Enemies of Insect Pests"
 "Three R's Plus" (overall view of the teaching program)
 "Fairness for Beginners"
 "The Legislative Reporter"
 "Using the Laboratory (Chemistry and Physics)"
 "Helen Keller in Her Story"
 "The Gallant Little Tailor"

Code Classes Open To Staff

For the third straight semester, classes in international code practice are being given by the amateur radio station, W3YA. The classes are open to students, staff members, and State College residents.

Classes began last Monday and are being held each Monday and Wednesday evening at 7 p.m., in Room 100 Electrical Engineering Building. Instruction is free. More information may be obtained from Gilbert L. Crossley, assistant professor of electrical engineering, Ext. 2143.

School Board Institute To Hold Meeting In March

The fourth annual School Board Institute, co-sponsored by the Pennsylvania School Study Council in co-operation with the College of Education, the Pennsylvania State School Directors Association, and the Centre County School Directors Association, will be held on Mar. 19 and 20.

The Institute, which will attract school directors from the State, will have as its theme, "How Can Research Improve Public Education."

Dr. J. R. Rackley, dean of the College of Education, will be the speaker at the annual dinner.

Journalism Institute Planned For June 23

Plans for a workshop for high school journalists, to be held June 23 to 29, have been announced by I. W. Cole, director of the school of journalism, and Robert Broome, president of the Pennsylvania School Press Association.

The workshop will attract high school students who will be seniors next fall and who are staff members of their high school papers. Enrollment will be limited to 100.

McKinley Appointed To NAM Educational Council

David H. McKinley, assistant dean of the College of Business Administration, will represent teaching on the higher level of education on a 31-man Educational Advisory Council of the National Association of Manufacturers. His term will run for three years.

Chaired by Dean Virgil Rogers, of the school of education at Syracuse University, the council is composed of representatives of all areas and levels of public and private education in the United States. The council passes on all published materials sent out by the NAM to the public school systems of the nation; reviews the educational objectives of the NAM; and explores the ways by which teachers and administrators in education can further assist in the development of the Association's program.

President Walker Conferred Honorary Doctor of Laws

President Eric A. Walker received the honorary degree of doctor of laws from Temple University at the mid-year commencement exercises on Feb. 14.

He was presented for the degree by Ray S. Tannehill, vice president of the Bell Telephone Co. of Pennsylvania, and former chairman of the Penn State Alumni Fund. Mr. Tannehill cited President Walker's contributions to science and education in making his presentation.

Morse Lecture At Hillel Foundation

Dr. J. Mitchell Morse, assistant professor of English composition, will speak on "John Milton: Aeropagitica" on the Hillel Foundation lecture series, Sunday, Feb. 24, at 8 p.m. in the Foundation center on Locust Lane.

The talk is the third of the series generally titled "The Structure of Freedom" and Dr. Morse's topic is "Freedom From Censorship." In succeeding weeks, Dr. Neal Riemer, associate professor of political science; Dr. Howard Cutler, head of the department of economics; Dr. Leon Gorlow, associate professor of psychology; Dr. Laurent LeSage, professor of Romance languages; Dr. Harold E. Dickson, professor of history of art and architecture; and Aaron Druckman, associate professor of philosophy, will speak on the general theme of the series.

Classroom Building Named For Dr. Boucke

Boucke Building is the new name of the classroom building formerly known as Hall of Americas.

The name honors Dr. O. F. Boucke, for many years professor of economics, who came to the University in 1908. He taught history and German in early years, later transferring to economics. He was author of six books in his field, among them "Europe and the American Tariff" and "Laissez Faire and After."

Dr. Boucke died at the age of 53, in 1935.

Third Group of Scientists Begins Nuclear Studies

A third group of scientists and engineers to be enrolled in the International School of Nuclear Science and Engineering program has begun its studies which will last four months before the group goes to Argonne National Laboratory for an additional four-month program.

Of the 31 enrolled in the current group, seven are from the United States and the other 24 are from 19 foreign countries. The program is part of the nation's atoms-for-peace plan. Dr. Warren Miller, associate professor of chemistry, is in charge of the academic program and Virgil E. Neilly, associate professor of engineering extension, coordinates the project.

Pressure Vessels Project Started In Mechanics

A project on the design of pressure vessels, sponsored by the Welding Research Council, will be conducted by the department of engineering mechanics. Dr. Joseph Marin, head of the department, will conduct the project with the assistance of M. G. Sharma, research assistant.

The study will deal with the development of stress analysis procedures for the design of pressure vessels at both normal and elevated temperatures and will be of interest in various engineering applications, including reactors and other pressure vessels operated at elevated temperature.

Research Aimed At Mineral Formation

Understanding of how minerals are formed in nature is a goal in a current research study in geochemistry by Dr. M. L. Keith, professor of geochemistry and director of the mineral conservation section.

Supported by a two-year \$14,500 grant from the National Science Foundation, the study is being carried out in the laboratory by producing synthetic mineral specimens under controlled temperature conditions. Dr. Keith points out that the temperature at which the minerals crystallize will provide a clue to the basic understanding of their formation.

The crystals are being grown in the laboratory by simulating as closely as possible the pressure and temperature conditions in part of the earth's crust. Temperatures above 600 degrees C. and pressures up to 30,000 p.s.i. have been used.

Charmbury Testifies At House Meeting

Dr. H. Beecher Charmbury, professor of mineral preparation, gave testimony last week before a subcommittee on coal research of the House Committee on Interior and Insular Affairs.

He told the committee that the coal industry must have help if it is to make progress and meet the increasing demands imposed on it. Citing the steadily increasing growth of the coal industry, he emphasized that more technically trained engineers are needed for efficient production, preparation, and utilization of coal.

Advocating a well-balanced coal research program on mining, preparation, and utilization, Dr. Charmbury said that the federal government would provide a conservation program, a prosperous program for the coal industry, and an economical program for all citizens.

German Reading Exam Registration Set

All eligible graduate students who intend to take the regular German language reading examination on Mar. 4, other than those who have qualified by passing the preliminary exams, should register by Feb. 26 in Room 229, Sparks.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, Mar. 1

Players production of "One's A Crowd," by Eugene Raskin, Center Stage, 8 p.m.

Saturday, Mar. 2

Players production of "One's A Crowd," by Eugene Raskin, Center Stage, 8 p.m.
Varsity basketball, versus Pittsburgh, 8 p.m., Rec Hall. Freshman basketball at 6:30 p.m., versus Pittsburgh.

Sunday, Mar. 3

Chapel service, 10:55 a.m., Schwab Auditorium. Dr. Glenn Olds, director, Cornell United Religious Work, Cornell Univ.
Hillel Lecture Series, 8 p.m., Hillel Foundation Center. Dr. Neal Riemer, associate professor of political science, on "The Bloody Tenet of Persecution for the Cause of Conscience."

Monday, Mar. 4

Faculty Luncheon Club, 12 noon, Dining Room "A", Hetzel Union Building. Bernard P. Taylor, executive director, Penn State Foundation, on "To Him Who Hath."
Joint Ionosphere and Meteorology Seminar, 2 p.m., 206 Electrical Engineering, Dr. Henry Booker, professor of physics, Cornell University, on "Turbulence in the Ionosphere."
Motor Fleet Maintenance conference.
Mineral Economics Seminar, 4:10 p.m., 121 Mineral Industries. A. W. Asman, on "Non-ferrous Metal Mining."

Tuesday, Mar. 5

Pest Control Operators conference begins.
Beef Cattle Herdsmen Short Course begins.
Philosophy colloquium, 4:10 p.m., 236 Sparks.
Dr. Anna-Teresa Tymieniecka, visiting assistant professor of philosophy, on "Theory of Ideas and participation in Recent Philosophic Inquiry."
Economics Seminar, 12 noon, Dining Room "C", Hetzel Union Building. William Martin, associate professor of economics, on "Romantic Reaction to Classical Economics."

Wednesday, Mar. 6

Program of "Songs of Jewish Life" by Saul Meisels, Cantor of the Temple of the Heights, Cleveland, Ohio, 8 p.m., Hillel Foundation auditorium.
Forestry Convocation, 11 a.m., 121 Sparks. T. W. Lauderdale, Union Bag and Paper Corp., Savannah, Ga., in an illustrated lecture.

Thursday, Mar. 7

Opening night of the Players production of Jean Giraudoux's play "Madwoman of Chailot," 8 p.m., Schwab Auditorium, tickets \$.60.
Senate meeting, 4:10 p.m., Assembly Room of the Hetzel Union Building.
Three-day Congress of Pennsylvania Inter-State Debaters begins.

Friday, Mar. 8

Players production of "One's A Crowd," by Eugene Raskin, 8 p.m., Center Stage.
Players production of Jean Giraudoux's play, "Madwoman of Chailot", 8 p.m., Schwab Auditorium, tickets \$1.
Talk on digital computers, by William Cahill, National Bureau of Standards, 8 p.m., 110 Electrical Engineering.

✓ Spring Weekend Program Planned For April 12, 13

The eighth annual Home Economics Spring Weekend will be held on Friday and Saturday, April 12 and 13, with a theme of "Food Today—A Common Denominator of All People."

The program, according to Dean Grace M. Henderson, has been built on the meaning of food to all people today and the role it plays in the physical, psychological, and economic structure of today's world.

The keynote address, at 4 p.m., Friday, Apr. 12, will be given by Dr. Florence Reynolds, information and educational officer, North American regional office of the Food and Agriculture Organization. She will talk on "Food—A Common Denominator of All People."

✓ Players Production Continues at Center Stage

The play, "One's A Crowd," by Eugene Raskin, which had its world premier as a Penn State Players production last weekend, will be given each Friday and Saturday at Center Stage in the Extension Conference Center, until Mar. 30.

Raskin's play was selected from scripts available through the New Dramatists in New York, an organization sponsored by the Dramatics Guild to give talented new playwrights an opportunity. It was selected for production by the Penn State Players by Robert D. Reifsneider, associate professor of theatre arts, director of the production.

In connection with the play, an exhibit titled "The Theatre Through the Arts" is on display at the Hetzel Union Building gallery.

The play is given at 8 p.m., Friday and Saturday and tickets are \$1.

Senate Meets Thursday

The University Senate will meet on Thursday, Mar. 7, at 4:10 p.m. in the Assembly Room of the Hetzel Union Building.

✓ Plans Proceeding On Social Security

Informational booklets explaining the proposed integration of the State Employees Retirement System with the Federal Social Security are being mailed to all regular employees of the University.

The booklets contain many questions and answers and cover the integration plan in great detail.

A series of meetings to inform employees of the plan and give them an opportunity to ask further questions has been set up in March and April.

The schedule includes four daytime meetings and four in the evening:

Monday, Mar. 18, 4 p.m., 121 Sparks
Wednesday, Mar. 20, 7 p.m., 121 Sparks
Tuesday, Mar. 26, 11 a.m., 10 Sparks
Thursday, Mar. 28, 7 p.m., 316 Sparks
Monday, April 1, 7 p.m., 121 Sparks
Wednesday, April 3, 4 p.m., 316 Sparks
Tuesday, April 9, 7 p.m., 10 Sparks
Thursday, April 11, 4 p.m., 316 Sparks

All State employees now members of the State Employees Retirement System will vote on May 26, 27 and 28 on whether they wish to be covered under Social Security. Those who indicate at that time they do wish to be covered will be asked to vote a second time to indicate their preference. If more than 50 per cent of those voting indicate again their wish to be covered, the integration will go into effect as soon thereafter as possible. Those who indicated on the first ballot they did not wish Social Security, and those who failed to vote, will not receive Social Security benefits.

Officials have indicated that employees will have ample opportunity to ask questions, of either general or specific nature, in plenty of time to base their decision on the May 26 ballot.

✓ Dr. McConnell To Give Graduate School Lecture

The second of the current series of Graduate School Lectures will be given by Dr. John W. McConnell, dean of the Graduate School, Cornell University, on Monday, Mar. 11, at 8 p.m. in Room 10, Sparks.

Registrar Reports on Total Enrollment for Spring Semester, 1956-57

	1 Sem	2 Sem	3 Sem	4 Sem	5 Sem	6 Sem	7 Sem	8 Sem	Total
Agriculture									
ABCh	2	8	—	4	—	12	—	10	36
AERS	—	16	2	3	2	8	1	17	49
AgEd	2	36	2	28	3	36	5	49	161
AgJ	—	1	—	—	1	2	1	3	8
Agro	1	4	1	10	2	10	4	8	40
AH	2	44	3	23	2	22	9	35	140
Bact	1	1	—	2	3	16	1	4	28
BPP	—	—	—	1	—	—	—	2	3
Consv	—	2	2	5	1	1	—	—	11
DSc	2	20	—	27	3	27	4	27	110
GnAg	2	12	—	12	—	19	3	13	61
Hort	—	20	2	25	4	30	3	29	113
MedT	1	23	—	15	—	12	—	8	59
PH	—	4	—	1	—	2	—	1	8
PV	1	18	6	19	1	15	—	—	60
ZE	1	13	1	8	1	10	2	10	46
2Ag	2	14	4	15	—	1	—	—	36
School of Forestry									
For	—	1	2	51	4	59	3	42	162
WU	—	—	—	5	2	7	4	6	24
Total	17	237	25	254	29	289	40	264	1155
Business Administration									
BA	32	307	28	293	99	333	80	325	1497
Total	32	307	28	293	99	333	80	325	1497
Chemistry & Physics									
ChE	1	108	4	57	6	48	4	51	279
Chem	1	44	2	24	4	23	1	19	118
CCh	—	—	—	—	—	3	1	2	6
Phys	6	40	5	32	3	22	3	21	132
PM	1	50	3	32	2	26	—	26	140
Sc	1	12	1	3	1	10	5	15	48
Total	10	254	15	148	16	132	14	134	723
Education									
AEd	1	16	2	11	4	15	2	12	63
Ed	11	220	18	214	25	216	27	244	975
IArt	1	6	3	10	5	21	1	16	63
MusEd	1	24	5	18	2	11	4	15	80
Psy	4	53	7	46	12	28	9	36	195
VIEd	1	1	—	2	—	2	2	2	10
Total	19	320	35	301	48	293	45	325	1386
Engineering & Architecture									
AeroE	1	107	4	56	9	36	2	32	247
AgE	—	14	—	9	1	16	2	9	51
Arch	—	32	2	23	4	16	—	39	116
AE	—	22	1	13	1	5	—	14	56
CE	5	101	5	62	12	51	21	63	320
EE	22	238	29	196	70	186	38	173	952
ESc	—	—	1	17	—	13	1	13	45
IE	3	47	4	29	4	56	7	63	213
ME	—	130	18	112	27	107	17	109	520
SE	—	—	—	3	—	—	1	3	7
Total	31	691	64	520	128	486	89	518	2527
Home Economics									
HEc	2	133	4	111	6	144	4	122	526
HA	1	28	4	28	3	29	3	34	130
Total	3	161	8	139	9	173	7	156	656
The Liberal Arts									
AL	18	262	20	206	47	240	36	224	1053
Journ	7	53	5	57	9	53	12	44	240
LMR	1	8	1	12	6	14	3	18	63
AArt	2	23	—	18	2	15	1	9	70
Arts	—	1	1	11	2	9	1	9	34
Total	28	347	27	304	66	331	53	304	1460
Mineral Industries									
Cer	1	15	—	8	1	8	1	5	39
FT	—	15	—	1	—	1	—	1	18
Geog	—	—	—	4	—	4	1	7	16
G&G	—	4	1	8	2	9	1	3	28
G&M	1	17	1	9	—	5	5	13	51
Metal	1	44	2	20	—	26	3	25	121
Meteo	1	7	2	11	2	11	2	36	72
MnEc	—	—	—	—	—	3	1	6	10
MPE	—	3	—	1	—	1	1	2	8
MngE	—	7	2	3	—	1	2	10	25
PNGE	1	16	4	16	3	13	—	24	77
Total	5	128	12	81	8	82	17	132	465

Registrar Reports on Total Enrollment for Spring Semester, 1956-57

	1 Sem	2 Sem	3 Sem	4 Sem	5 Sem	6 Sem	7 Sem	8 Sem	Total
Physical Education & Athletics									
PhEd	3	52	6	50	8	45	7	48	219
RcEd	2	7	—	13	2	10	1	12	47
Total	5	59	6	63	10	55	8	60	266

	1 Sem	2 Sem	3 Sem	4 Sem	5 Sem	6 Sem	7 Sem	8 Sem	Total
Division of Intermediate Registration and Division of Counselling									
DIR	—	110	42	255	37	54	5	2	505
DC	—	133	2	—	—	—	—	—	135
Total	—	243	44	255	37	54	5	2	640
Total	150	2747	264	2358	450	2229	357	2220	10775

	Freshmen		Sophomores		Juniors		Seniors		Graduate		Special		Totals		T
	M	W	M	W	M	W	M	W	M	W	M	W	M	W	T
Campus															
Full-time	2130	756	1976	633	2055	607	1997	552	421	86	48	9	8627	2643	11270
Part-time	3	8	6	7	8	9	11	17	788	229	90	154	906	424	1330
Total on Campus	2133	764	1982	640	2063	616	2008	569	1209	315	138	163	9533	3067	12600

Centers (See summary below)															
Full-time (4-Yr)	634	251	208	36	4	—	—	—	—	—	—	—	846	287	1133
Full-time (2-Yr)	655	20	427	8	—	—	—	—	—	—	—	—	1082	28	1110
Part-time (4-Yr)	55	2	4	—	—	—	—	—	—	—	6	10	65	12	77
Part-time (2-Yr)	44	—	15	—	—	—	—	—	—	—	—	—	59	—	59
Total Centers	1388	273	654	44	4	—	—	—	—	—	6	10	2052	327	2379

Mont Alto															
Full-time	98	—	—	—	—	—	—	—	—	—	—	—	98	—	98
Total Off Campus	1486	273	654	44	4	—	—	—	—	—	6	10	2150	327	2477
Total On and Off Campus	3619	1037	2636	684	2067	616	2008	569	1209	315	144	173	11683	3394	15077
	4656		3320		2683		2577		1524		317				

Summary of Off Campus Enrollment, Spring Semester, 1956-57

Centers															
Allentown	—	—	—	—	—	—	—	—	82	1	—	—	83	—	83
Altoona	190	4	6	160	12	—	—	372	—	—	—	—	—	—	372
Behrend	103	18	2	82	9	—	—	214	—	—	—	—	—	—	214
DuBois	63	—	1	38	1	—	—	103	—	—	—	—	—	—	103
Hazleton	146	2	3	89	9	—	—	249	—	—	—	—	—	—	249
McKeesport	—	—	—	117	7	—	—	124	—	—	—	—	—	—	124
New Castle	—	—	—	31	1	—	—	32	—	—	—	—	—	—	32
Ogontz	456	37	2	88	—	—	—	583	—	—	—	—	—	—	583
Pottsville	175	—	2	73	—	—	—	250	—	—	—	—	—	—	250
Scranton	—	—	—	82	5	—	—	87	—	—	—	—	—	—	87
Wilkes-Barre	—	—	—	144	11	—	—	155	—	—	—	—	—	—	155
York	—	—	—	124	3	—	—	127	—	—	—	—	—	—	127
Mont Alto	98	—	—	—	—	—	—	98	—	—	—	—	—	—	98
Total Off Campus	1231	61	16	1110	59	—	—	2477	—	—	—	—	—	—	2477

Recapitulation

	M	W	Total
Campus			
Full-time undergrad.	8206	2557	10763
Part-time undergrad.	118	195	313
Total undergrad.	8324	2752	11076
Full-time graduate	421	86	507
Part-time graduate	788	229	1017
Total graduate	1209	315	1524
Total On Campus	9533	3067	12600
Off Campus			
Full-time undergrad.	2026	315	2341
Part-time undergrad.	124	12	136
Total Off Campus	2150	327	2477
On and Off Campus			
Full-time undergrad.	10232	2872	13104
Part-time undergrad.	242	207	449
Full-time graduate	421	86	507
Part-time graduate	788	229	1017
Total	11683	3394	15077

Graduate and Special Students by Colleges

	Graduate		Special	
	M	W	M	W
Agriculture	209	14	17	1
Business Admin.	38	1	11	14
Chem. and Phys.	212	10	14	—
Home Economics	—	72	—	22
Liberal Arts	120	57	32	54
Education	297	143	33	62
Eng. and Arch.	118	—	15	4
Mineral Ind.	179	4	15	2
Phys. Ed. and Ath.	27	9	1	4
General Graduate	9	5	—	—
Total	1209	315	138	163
	1524		301	

Items of Interest

Wolfgang E. Meyer, professor of engineering research, is author of an article on "Compression Retarders" in the current issue of the Society of Automotive Engineers journal. He is also co-author, with M. B. Purvis, former assistant professor of mechanical engineering, and F. J. Villforth, Jr., of The Texas Co., on "Measurement of Bearing Lubricant Films" in the December issue of Instruments and Automation.

★ ★ ★
Dr. Walter H. Walters, head of the department of theatre arts, has been appointed book review editor of the *Educational Theatre Journal*, official publication of the American Educational Theatre Association.

★ ★ ★
A solo recital will be sung by Raymond H. Brown, assistant professor of music, at The Phillips Art Gallery, Washington, D.C., on Monday, Mar. 4. The program will consist of early English songs, contemporary American songs, and "Dichterliebe" by Robert Schumann.

★ ★ ★
Dr. Ruth R. Honey, director of Home Economics Research, participated in an Administrators' Conference at The Merrill-Palmer School, Detroit, Mich., last week.

★ ★ ★
Harold P. Zelko, professor of speech, was guest lecturer at the American Management Association in New York recently. He spoke on "Speaking for Executive Action," as part of the program of the Executive Action course. He also assisted in the direction and leadership of the Association's speaking clinic for executives.

★ ★ ★
Allen C. St. Clair, director of purchases, presented a series of lectures this week at the ninth annual Institute on College and University Purchasing, at Princeton U. The Institute is conducted by the National Association of Educational Buyers.

Dunlop To Conduct Bands At Air Force Concerts

James W. Dunlop, associate professor of music education and conductor of the Blue Band will serve as a guest conductor in two concerts by the U.S. Air Force Band, as well as conductor of the Blue Band at the American Bandmasters Association convention in Pittsburgh next week.

The Blue Band will present a concert on Wednesday night, with guest conductors for nine of the 11 compositions on the program.

Leonard B. Smith, cornetist, will be soloist for one of the numbers and also will be soloist for the numbers played by the U.S. Air Force Band with Dunlop as guest conductor.

Pres. Walker Asks State For More Financial Aid

The following press dispatch appeared in the newspapers of the State today.

The Pennsylvania State University cannot possibly admit additional students unless the Commonwealth assumes financial responsibility for the required expansion of facilities, President Eric A. Walker said today.

These are the same students, he pointed out, who have been crowding the public schools in the past several years and who will, in steadily increasing numbers, seek admission to Penn State.

Dr. Walker, replying to a question on the adequacy of the \$27,700,000 biennium appropriation recommended to the General Assembly by Governor Leader, observed that this figure fell "far short" of meeting even the University's minimum obligations for 1957-59.

New men's and women's dormitories planned for 1960 will be among the first projects abandoned if the State indicates a wish to stabilize enrollment at its present figure, the President said.

He explained that the University, to meet the real and projected enrollment bulge which soon will engulf the State's colleges and universities, was confronted with the need of adjusting salaries not only to attract new personnel but also to hold its present faculty and staff, of modifying its program to take care of more women applicants, and of providing the necessary facilities for such expansion.

"The faculty problem in itself is staggering," President Walker said. "Faculty members have not shared adequately in general wage increases, and the competition from business, industry and government tends not only to keep the number of new teachers down but also to drive highly qualified teachers out of our classrooms and into other occupations."

Pointing out that the University only recently had boosted fees beyond the level of most Land-Grant colleges, Dr. Walker said the increased cost of public education when added to the high degree of selectivity imposed by lack of classroom and housing space was sacrificing the whole philosophy of the State institution, which traditionally has been to extend educational opportunities to the young people of the Commonwealth at relatively low cost.

"Even now," he pointed out, "a high school graduate either must finish in the first two fifths of his class or place high in an entrance examination to gain admission to Penn State. As the demand for admission grows, the restrictions will grow increasingly more drastic, and eventually only the select few will be able to get into college."

If Penn State is provided with the resources to meet its educational responsibilities, present enrollment, which reached more than 14,000 this year, will reach 20,000 or more by 1965. "This," Dr. Walker said, "will probably represent a smaller percentage of those ap-

Travel Coordinator, Fleet Operations Move

Effective today, Mar. 1, the offices of the transportation division of the department of purchases, consisting of the travel coordinator and fleet operations, have been moved to the Water Tower opposite Beaver Field.

The telephone numbers for the division are now 2604 and 2605. The number formerly assigned to fleet operations, 2543, will no longer apply.

In January, fleet operations was transferred from General Extension to the Department of Purchases. All requests for University transportation service will be made through these offices in the Water Tower. Miss M. Josephine Groesbeck is the travel coordinator and Samuel Blazer is in charge of fleet operations.

Language Exams Scheduled

The regular written foreign language examinations will be held on Monday, Mar. 4, at 7 p.m. Those in German will take place in Rooms 227 and 228 Sparks and those in French and Spanish in 316 Sparks.

Fellowships Renewed

Graduate fellowships, providing a stipend of \$1500, payment of non-exempt fees, and an award of \$400 to cover research expenses, have been renewed for the coming academic year by the Shell Oil Co. The fellowships are in the departments of chemistry and chemical engineering.

★ ★ ★
A graduate fellowship in the department of electrical engineering has been renewed by the Sperry Gyroscope Co. for 1957-58. The fellowship provides \$2,900, of which \$2,000 is a stipend for the recipient and \$900 for the graduate program of the department.

★ ★ ★
The United States Steel Foundation, Inc., has renewed its fellowship award in the department of metallurgy for the two-year period beginning Sept. 1, 1957. The fellowship provides for a sum of \$3,000 per year, one half of which is a stipend to the recipient and the remainder earmarked for additional fellowship and departmental costs.

Research Grants Made

A grant of \$17,756 to support research conducted by Dr. Thomas Wartik on the chemistry of boron compounds has been made by the Air Research and Development Command of the U.S. Air Force. Dr. Wartik, associate professor of chemistry, has held an Air Force contract for this basic work since 1952.

plying for admission than we now accept.

"If the money needed to operate the institution under frugal management is not forthcoming," Dr. Walker added, "it will be necessary to stabilize our enrollment or at near its present figure."

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, Mar. 8

Players production of "One's A Crowd" by Eugene Raskin, 8 p.m., Center Stage, Extension Conference Building.

Players production of Jean Giraudoux's play "Madwoman of Chailiot," 8 p.m., Schwab Auditorium, tickets \$1.

Talk on digital computers, by William Cahill, National Bureau of Standards, 8 p.m., 110 Electrical Engineering.

Saturday, Mar. 9

Joint Physics-Low Temperature Seminar, 12 noon, 117 Osmond. Dr. Ralph P. Hudson, chief of the Cryogenic Laboratory, National Bureau of Standards, on "Orientation of Nuclei at Low Temperature."

Sunday, Mar. 10

Organ recital by George Ceiga, University organist, 4 p.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Theodore A. Gill, managing editor, "The Christian Century," Chicago, Ill.

Three films on Israel, including "The Suez Canal," "A State Is Born" and "Tent City," 2 p.m., Hillel Foundation.

Hillel Lecture Series, 8 p.m., Hillel Auditorium. Dr. Howard Cutler, head of department of economics, on Adam Smith's "Wealth of Nations."

Monday, Mar. 11

Faculty Luncheon Club, 12 noon, Dining Room "A", Hetzel Union Building. Bernard P. Taylor, executive director, Penn State Foundation, on "To Him Who Hath."

First sessions of University Christian Association faculty seminars, 8 p.m., Program Centre, The Chapel. Seminar on "The Life and Ministry of Jesus," conducted by Rev. Donald McIlvride, acting director of Westminster Foundation. Seminar on "What Present-Day Theologians Are Thinking," conducted by Sam N. Gibson, executive director, UCA, on "Introduction to Theology."

Three-day Nursing Education Workshop begins.

Hardwood Lumber Grading and Inspection Short Course begins.

Mineral Economics Seminar, 4:10 p.m., 121 Mineral Industries. Dr. H. B. Charnbury, on "Beneficiation of Nonferrous Ores."

Tuesday, Mar. 12

Physics Colloquium, 4:10 p.m., 117 Osmond. Dr. Robert S. Marvin, chief of the rheology section, National Bureau of Standards, on "An Apparatus for the Direct Measurement of the Dynamic Bulk Modulus and Its Application to the Study of Transitions."

Ag Extension and Soil Conservation Service Technicians Conference begins.

Plant Science Club meeting, 7:30 p.m., Room 12 Sparks. Dr. Bruce Siegenthaler, associate professor of clinical speech, on "Demonstration of Activities of the Speech and Hearing Clinic."

Society for Metals chapter meeting, 7:30 p.m., Mineral Sciences Auditorium. R. A. Grange, Fundamental Research Laboratory, U.S. Steel Corp., on "Heat Treatment—Its Effect on Metals."

Meeting of Central Penna. Section, American Chemical Society, 8 p.m., 119 Osmond Lab. Dr. Bernard M. Sturgis, director, Dupont Petroleum Laboratory, on "Chemistry of

Combustion and Knock in Engines."

Economics Seminar dining room "C" of the HUB, 12 noon. Frank Cook, on "Should Public Power Be Taxed."

Wednesday, Mar. 13

Concert by Westminster Choir, final program of the State College Concert Association, 8:30 p.m., Schwab Auditorium.

Student chapter of AIME meeting, 7:30 p.m., Mineral Sciences Auditorium. Panel discussion on "Opportunities for Engineers in Industry", with A. W. Asman, head of the department of mining, as moderator.

Talks on integration of Social Security and State Employees Retirement system by Paul C. Moomaw, executive director, Pennsylvania Bureau of Social Security for Public Employees, 4:15 p.m. and 8 p.m., Room 10 Sparks.

Thursday, Mar. 14

Mathematics Colloquium, 2:10 p.m., 228 Sparks, with Dr. Haskell B. Curry, professor of mathematics, on "An Abstract Treatment of Generating Functions."

Chemistry Colloquium, 8 p.m., Room 105, Walker Lab. Dr. J. G. Aston, head of the low temperature laboratory, on Palladium Hydride."

College of Business Administration Career Day. Panel discussion, 2 p.m., on various topics. Evening meeting, 8 p.m., Schwab Auditorium, Gov. George M. Leader.

Dr. McConnell To Talk On The Older Worker

Dr. John W. McConnell, dean of the Graduate School, Cornell University, will be the speaker on the Graduate School Lecture Series on Monday, Mar. 11. The lecture will be at 8 p.m., Room 10, Sparks and is co-sponsored by the Colleges of Business Administration and The Liberal Arts.

Dr. McConnell will speak on "The Older Worker in the American Economy."

Social Security Meeting Planned

Paul C. Moomaw, executive director of the Bureau of Social Security for Public Employees, Harrisburg, Pa., will give two talks on Wednesday, Mar. 13 to University employees to explain provisions of the plan to integrate the State Employees' Retirement System and Federal Social Security.

Moomaw will speak in Room 10 Sparks from 4:15 to 5 p.m. and again from 8 to 9 p.m.

A series of meetings, starting Mar. 18, have also been arranged to give University employees an opportunity to ask questions about the plan.

Leader To Speak On Business Career Day

Gov. George M. Leader will be the featured speaker for the Annual College of Business Administration Career Day on Thursday, Mar. 14. He will speak at the evening session of the day-long program, with Ossian R. MacKenzie, dean of the College, as chairman of the session. President Eric A. Walker will introduce the Governor.

The program will explore the opportunities for service in commerce, industry, labor, trade, and government. Eight panel discussions concerned with accounting, economics, finance, insurance, labor, management, marketing, and transportation, will be held.

Tickets Available For Wrestling Championships

Tickets for the two-day Eastern Intercollegiate Wrestling Association championships Mar. 15 and 16 are available now at Room 249 Recreation Building.

Afternoon sessions, starting at 2 p.m., and evening sessions at 8 p.m., will decide individual and team titles. Eighteen teams have entered the meet.

Reserved seat series tickets, good for all sessions, are priced at \$5.50 and unreserved series tickets at \$4. One-session, reserved seat tickets on Friday are \$1.25, on Saturday afternoon \$2, and Saturday evening \$2.50. Unreserved seats on Friday are \$1, Saturday afternoon \$1.50, and Saturday evening \$2.

Meetings Coming Up

There will be a meeting of the Graduate School Faculty at 4:10 p.m., Thursday, Mar. 21, in 121 Sparks.

Elmer C. Wareham, instructor in music, will talk to the Slavic Club on "Nationalism in Russian Music" on Thursday, Mar. 21, at 7 p.m., in 203 Willard Hall.

The faculty of the College of Physical Education and Athletics will meet on Monday, Mar. 25, at 7 p.m., 241 Rec Hall.

Central Library

Miss Mildred Allman

March 8, 1957



Dr. Paul Schweitzer, left, and Dr. A. H. Hussman, professors of engineering research, discuss developments in Diesel engine research which show promise of wider acceptability of these engines, perhaps even in motor cars.

Less Noise, Smoke

Diesel Engine Acceptability Sought in Schweitzer Research

THE many years of research in Diesel engines carried on by Dr. Paul Schweitzer, professor of engineering research, has earned for him an international reputation.

In the engineering field he has become well known not only in this country but in Europe, Japan, and India as well for his successful attempts to improve the Diesel engine and broaden its use.

In recent years, Dr. Schweitzer has campaigned for the acceptability by the general public of Diesel engines. The noisy, smelly, and often smoky Diesel has lacked "social acceptability."

Now the efforts of Dr. Schweitzer and others in the field are beginning to bear fruit. Smoke can be eliminated, Dr. Schweitzer has found, by his "fumigation method" and the M.A.N. Company of Germany, has developed a "whisper engine" which greatly reduces noise.

"While we are not sure that these two developments are compatible," Dr. Schweitzer points out, "they demonstrate that the problems of noise, smoke, and odor are not insoluble."

Reared and educated in Hungary, Dr. Schweitzer came to this country in 1920 and became a naturalized citizen in 1925, two years after he had joined the Penn State staff as assistant professor. In these 34 years on campus, he has been in charge of the Diesel engine laboratory, learning much about the subject which has resulted in well over a hundred technical papers and significant improvements in the engine. His book on two-stroke cycle diesel engines has been translated into German and Spanish.

Generally speaking, the Diesel engine has several important advantages over the more commonly used spark-ignition engine used in automobiles. Most important is that it uses a cheaper fuel and less of it. On the other side of the ledger has been its noise, odor, and

smoke, plus the greater weight per horsepower. Even the latter problem can be solved as has been demonstrated by the Schweitzer-Hussman air-cooled Diesel being developed by Army Ordnance. It will weigh only four pounds per horsepower.

One of the basic differences between Diesels and spark-ignition engines is the manner in which the fuel is introduced into the cylinders. Diesels commonly use an injection system (which, incidentally, has been improved by Schweitzer's research), and gasoline engines use a carburetor (or injection) where the fuel and air are combined before compression. In the Diesel, the fuel is introduced separately after compression. Noting the advantages of carburetion, Schweitzer has combined the two systems in his "fumigation" method in which about 85 per cent of the fuel is introduced by injection directly into the cylinder, and the other 15 per cent into the intake air of the engine in the form of fine mist or fume.

The result is improved combustion so that exhaust smoke is greatly reduced without sacrificing power. This work has been carried on under a research contract with the Navy Bureau of Ships.

"We have noted that engine power is actually increased and that fuel economy is improved," Dr. Schweitzer says.

From the standpoint of the military services, an engine which could be run on several types of fuels would solve many supply problems. The "whisper engine" of the M.A.N. Company can do just that, but it is a four-stroke engine. The Army would like to have two-stroke cycle engines with the same characteristic. Dr. Schweitzer, together with Dr. A. W. Hussman, professor of engineering research, have a contract with the Army for such a development and have reported progress.

All these developments, Dr. Schweit-

zer believes, point in the direction of wider acceptability of Diesels, eventually even for passenger cars. Their obvious advantages could conceivably revolutionize the motor car industry.

Dr. Schweitzer's reputation in the Diesel field has opened many doors for him in laboratories and factories in this country and abroad. When he was in Europe for a year under a Fulbright fellowship he visited many areas, learning of engine developments. It was then that he ran across the "whisper engine" and alerted Army Ordnance, to which he is an advisor.

It was fully a decade ago that Dr. Schweitzer called attention to the need for further research on Diesels to reduce noise, smoke and odor. His own research, and that of others, show promise of greater developments to come.

Three Research Grants Approved By Trustees

Grants totalling \$16,500 for research in horticulture, botany, and meteorology were accepted by the Board of Trustees at its meeting on Feb. 26.

A grant of \$5,000 by the Eastern States Farmers' Exchange, for research on the nutritional requirements of sweet corn, will support work under the leadership of Dr. Cyril B. Smith, associate professor of plant nutrition.

The Monsanto Chemical Company has made a gift of \$500 to the Botany Research Assistance Fund to support an investigation of fungicidal action of various chemical compounds, under the direction of Dr. H. C. Fink, associate professor of plant pathology.

A grant of \$11,000 has been made by the National Science Foundation for a period of approximately three years to support research under the direction of Dr. Charles L. Hosler, associate professor of meteorology, on a project titled "Aggregation of Ice Crystals."

Alumni Fund Giving Totals Nearly \$180,000

Alumni Fund contributions in 1956 amounted to \$179,095.11 to bring the total for alumni giving since the fund was inaugurated to more than \$936,000.

George S. Rose, general chairman of the Fund, said that 9,731 graduates were represented in 1956 contributions.

Money received through the Fund is earmarked for projects for which appropriated funds or funds from other sources are not available.

Blackburn Painting Given To University

An oil painting by the Philadelphia artist, Morris Blackburn, has been presented to the University and hangs in the lounge of McKee Hall. The painting is titled "Sail Hoops."

The painting is a gift from Irwin L. Bernstein, 1926 graduate of the University.

Three Appointments To Faculty Announced

Three appointments to the faculty have been approved by the Board of Trustees:

Herman W. Southworth, presently consultant for the program in agriculture and business at the Harvard Graduate School of Business Administration, will become professor of agricultural economics, on July 1.

Robert W. Knoebel, presently associate professor of industrial education at Kansas State Teachers College, Pittsburg, Kansas, has been appointed associate professor of industrial education for a period of two years, beginning April 15, for assignment to the program on the island of Formosa. He had served previously on the industrial education staff from 1949 to 1955.

Roy P. Matelski, who will become professor of soil technology on April 1 or shortly thereafter, is now associate professor of agronomy at the University of Nebraska.

Five Faculty Members' Retirements Approved

Retirements of five faculty members were approved by the Board of Trustees at its meeting on Feb. 26.

J. Stanley Cobb, associate professor of agronomy, who has been on the staff since 1929, will retire effective July 1; Stuart W. Frost, professor of economic entomology, July 1 with title of professor emeritus of entomology; William F. Hall, professor of agricultural education, July 1, with title of professor emeritus of agricultural education; Frederick G. Merkle, professor of soil technology. Dr. Frost has served since 1918, Dr. Hall since 1921, and Dr. Merkle since 1920.

Ira L. Yoder, Snyder County Agricultural Agent, will retire April 1. He has served in agricultural extension work since 1928.

Leaves of Absence Approved For Four

Jerome K. Pasto, associate professor of farm management, has been granted a leave of absence for the period April 15, 1957 to June 30, 1958 to join the Food and Agricultural Organizations of the United Nations as senior farm management specialist.

James J. Reid, professor of bacteriology, has been granted a sabbatical leave of absence for the period July 1, 1957 to Dec. 31, 1957 to visit instruction and research facilities at a number of other universities.

Franklin H. Cook, professor of business law, will take a sabbatical leave of absence from Sept. 1, 1957 to Jan. 31, 1958 to prepare a text in the public utility field.

Theodore H. Gates, head of the department of English composition, has been granted a sabbatical leave of absence for the period July 1, 1957 to Dec. 31, 1957 to work on a book.

Changes of Status Approved by Trustees

Changes in status for five faculty members were approved by the Board of Trustees at its meeting on Feb. 26:

Gilbert T. Hess, associate county agent to Snyder County Agricultural agent, effective April 1.

Ruth W. Smith, assistant extension home economist to associate extension home economist, effective April 1.

John L. Walker, associate county agricultural agent to Clarion County agricultural agent, effective Mar. 1.

Jefferson D. Ashby, assistant director to acting director of the Division of Intermediate Registration, for the period May 1, 1957 to Oct. 31, 1957.

Henry R. Fortmann, associate professor of agronomy to assistant director of the Agricultural Experiment Station and associate professor of agronomy, effective April 1.

Scholarship Actions Taken By Trustees

Acceptance of scholarship aid from five sources was voted by the Board of Trustees at its meeting on Feb. 26.

A sum of \$1,584 has been donated by the Budd Company, Philadelphia, Pa., to be used for scholarships for students who have shown ability and are in need of financial help.

The Davis-Jephson Foundation has contributed \$2,000 to establish the College of Agriculture Students Assistance Fund to aid students who are worthy and in extreme need of financial assistance.

A \$250 scholarship for an entering freshman in the field of ceramics has been established by the Precision Grinding Wheel Co.

The Chevron Oil Company has provided \$500 for a scholarship for an entering freshman in the department of geophysics and geochemistry.

A contribution of \$2,000 by Matthew J. Wilson, 1918 graduate of the University, has been made to establish the Matthew J. Wilson Scholarship Fund, to which additional contributions will be made from time to time to be used for scholarships in the College of Mineral Industries.

School Teachers Roles To Be Studied By Buck

A three-year research project on the various roles of the public school teacher will be carried out by Dr. Roy C. Buck, associate professor of rural sociology under a grant of \$21,000 from the United States Office of Education and from the Agricultural Experiment Station.

The project will be conducted under the auspices of the Social Science Research Council.

Plans have been made to study 66 school systems in 22 Pennsylvania counties, with over 3,000 interviews scheduled.

Westminster Choir Presents Concert

The Westminster Choir, of Princeton, N.J., will present the final program of the State College Concert Series in Schwab Auditorium at 8:30 p.m. Wednesday, Mar. 13.

Organized in 1921, the Choir is unique for having sung under the leadership of one conductor, Dr. John Finley Williamson, longer than any other professional American chorus.

The Choir was first organized to serve as the volunteer choir of the Westminster Presbyterian Church of Dayton, O. Though the Choir retains the name it had in its affiliation with this church, it is no longer a church choir but the touring concert unit of Westminster Choir College in Princeton, N.J.

Williamson, founder and conductor of the Choir, is also founder and president of Westminster Choir College. Recognized as one of today's outstanding authorities on choral techniques, he is also credited with being a pioneer in the development of American choral singing.

Resignations Accepted

Resignations of three faculty members have been accepted by the Board of Trustees.

Ruth Ann Bowman, Extension Home Economist, will resign effective Mar. 31.

Sachindranarayan Bhaduri, research associate in engineering research, resigned Feb. 28 to accept employment and continue his studies at Johns Hopkins University.

Rustam B. Chinoy, research associate in engineering research, will resign Mar. 15 to accept a position with the General Electric Co., Schenectady, N.Y.

Bond Program Announced

A \$22,600,000 bond issue to finance a capital improvements program and to retire an existing mortgage with the State Employees' Retirement Board has been approved by the Board of Trustees.

The financing program will permit the University to borrow an additional \$20,100,000, or a total of \$42,700,000, its expected need for the next three years.

The capital improvements program, estimated to cost \$30,900,000, would include mainly student residence halls and an addition to the Food Stores Building.

Midweek Worship Services In Chapel Announced

Worship services in the Meditation Chapel, open to the town and campus community, are being held at 4:30 p.m. each Tuesday and Thursday and at 8:15 a.m. on Wednesday.

The Tuesday and Wednesday services are non-denominational, the Thursday service being within a denominational pattern.

The Meditation Chapel Choirs will sing for the Tuesday and Thursday vespers services.

Items of Interest

Elmer R. Queer, director of engineering research, was elected first vice president of the American Society of Heating and Air Conditioning Engineers at their 63rd annual meeting recently.

★ ★ ★

Dr. R. Hadly Waters, professor of transportation, and Dr. Robert D. Pashak, assistant professor, conferred recently with officials of the City of Altoona on problems on bus service. The two also attended a meeting in Harrisburg of officers of the Eastern district of Delta Nu Alpha, transportation fraternity.

★ ★ ★

Dr. Haskell B. Curry, professor of mathematics, addressed the Graduate Philosophy Club at Yale University recently on "Concepts of Formalization."

★ ★ ★

An article on "Words Use Men," by Russell N. DeVinney, instructor in English at the Wilkes-Barre Center, appears in a recent issue of "Today's Speech."

★ ★ ★

Dr. Erwin W. Mueller, research professor of physics, spoke recently at a physics division seminar of the National Carbon Co. Research Laboratories at Parma, Ohio, on the topic, "Field Ion Microscopy."

Emerson Art Works Displayed At HUB

An exhibition of art work emphasizing monoprints, by Sybil D. Emerson, professor of art education, is on display at the Hetzel Union Building and will continue there until Mar. 15.

The show also includes gouache, water colors, oils, drawings and paintings in mixed techniques.

Research Grants Approved

A study on fatigue of metals will be conducted by Dr. Joseph Marin, head of the department of engineering mechanics, and Dr. George U. Oppel, associate professor, under a grant of \$13,700 from the Wright Air Development Center. Melvin A. Wilkov and Piero Borachia, instructors, will assist in the project.

Jewelry Display At Home Economics

Jewelry designed and made by Walter J. Lavoy, part-time instructor in home art, is on display in the cases to the left of the main entrance of Home Economics Building. The exhibit will continue until Mar. 12.

Lavoy is teaching home arts while working on his doctorate in art education.

Third Workshop Planned On World Understanding

The sixth annual Workshop on Education for International Understanding, to be devoted to the Middle East, Latin America, and Africa, will be held on campus from July 1 to Aug. 10.

The program will also include a week's study of the United Nations and will feature a three-day trip to the U.N. headquarters in New York.

The Workshop, which last year enrolled 38 participants, including three Bolivian educators and 13 visitors from Belgium and France, is open to students in all fields, intended primarily for teachers, school administrators, and others interested in furthering international understanding.

Honorary Names Requested

Phi Beta Kappa members not affiliated with the Penn State Chapter are requested to send their names and office addresses to the secretary, Dr. Aileen Hostinsky, associate professor of mathematics, 213 Sparks.

Report from the Registrar

WITHDRAWALS (Campus)

- Gr Anderson, John William, Feb. 8
- Sp Belasco, Elaine M., Feb. 13
- 2 Berger, Elaine Carole, BA, Feb. 5
- 1 Bindi, Judy Rose, A&L, Feb. 18
- Gr Broach, Robert V.D., Feb. 20
- 3 Catulle, Robert E., ME, Feb. 8
- Sp Christ-Janer, Albert, Feb. 8
- 4 Crouse, James F., DIR, Feb. 7
- 1 Davis, Betty Jean, A&L, Feb. 3
- 2 Davis, James David, IE, Feb. 12
- 4 Delmore, Donald A., PhEd, Feb. 13
- 4 Dino, James Bernard, BA, Feb. 19
- 4 Dworetz, Edward C., DIR, Feb. 21
- 2 Fetterman, George E., A&L, Feb. 9
- Sp Frey, Velma Mae, Feb. 15
- Gr Gibson, Larry E., Feb. 4
- 4 Gorman, Ray P., PhEd, Feb. 6
- 2 Haraburda, Charles John, EE, Feb. 16
- 3 Hartmann, Harry C., DIR, Feb. 12
- 5 Kauffman, Paul Doandl, BA, Feb. 18
- 1 Kaufman, James Harry, Feb. 4
- 2 Kerin, Jack Lee, EE, Feb. 13
- 2 Kusic, Rena Barbara, EEd, Feb. 15
- 7 Lawrence, Walter Charles, BA, Feb. 4
- 2 Lorber, Neil M., ChE, Feb. 7
- 2 Mellman, David Brooks, PhEd, Feb. 4
- 6 Meredith, Susan Ellen, HEC, Feb. 19
- 2 Nicholas, Bruce T., EE, Feb. 13
- 2 Ott, Richard Lee, EE, Feb. 15
- 2 Potkonski, Louise T., PM, Feb. 7
- 4 Rekas, Karl Frank, PM, Feb. 4
- 8 Price, Harry Butler, Jr., Hort, Feb. 25
- 4 Sablowsky, Robert, A&L, Feb. 7
- 2 Sacco, John Phillip, DIR, Feb. 4
- 2 Schlotzhauer, Karl D., CE, Feb. 8
- 2 Shane, Allen C., DIR, Feb. 8
- 5 Troutman, William I., DIR, Feb. 25
- 7 Tryon, Roy Robert, HA, Feb. 5
- 7 Wilcox, Janet W., MusEd, Feb. 4

WITHDRAWALS

(University Centers)

Bachelor Degree Program

- 2 Dixon, Ruth Marie, PM, Feb. 8
- 2 Holtz, Richard Warren, Metal, Feb. 12
- 2 Sutusky, Joseph Peter, Met, Feb. 7
- Associate Degree Program
- 4 Forsgren, Kenneth Harwood, DDT, Feb. 4
- 1 Kramer, Ronald Dennis, ET, Jan. 10

The following reasons were given for withdrawing: Personal 23, Transferring 7, Scholastic 3, Financial 3, Military Service 1, Illness 3, and Other 4.

Change of Names

- Callahan, Sally Ann from Birdzell, Sally Ann
- Davis, Kay M. from Blodgett, Kay M.
- Gerhold, Marilyn Quigley from Quigley, Marilyn Lee
- Goyette, Nancy Walter from Walter, Nancy Marybert
- Hartman, Patricia Silk from Silk, Patricia Lee

Seminars On Religion Open To Faculty, Staff

The University Christian Association has announced that it will conduct two faculty seminars, of six weeks duration each, during March and April. The seminars will be open at no cost to faculty and staff, graduate students, and townspeople.

Rev. Donald McIlvride, acting director of Westminster Foundation, will conduct a seminar on "The Life and Ministry of Jesus," covering the Biblical accounts of the life, teachings, and work of Jesus the Christ.

Another seminar, on "What Present-Day Theologians Are Thinking", will be conducted by six lecturers, who will present the major contributions of some of the outstanding contemporary Protestant theologians. Sam N. Gibson, executive director of the University Christian Association, will present the first lecture on "Introduction To Theology."

Both seminars will meet at 8 p.m. in the program center of the Helen Eakin Eisenhower Chapel. The first meetings take place on Monday, Mar. 11.

Electric System Change Will Cause Interruptions

Changeover of the campus electric distribution system from 2,400 volts to 4,160 volts will take place in June, faculty members have been advised.

The changeover, which will necessitate interruptions in electrical service to all parts of the campus, will continue for about a week, tentatively starting June 12. A detailed schedule, showing which areas will have prolonged periods of interruption and on which days, will be published later.

Work on the project is progressing on schedule. Many of the larger pieces of equipment, such as transformers, switches, cables and motors have already been installed and some equipment has been shifted from one building to another to utilize the full capacity of the equipment.

Short interruptions daily during the changeover period will occur, due to accidents and emergencies.

The need for the higher voltage arises with the increased electrical demand on campus, caused not only by more building construction but also the increase in the use of electricity in providing adequate lighting and additional equipment. Construction of the new system began a year ago.

- Kemper, Donna Evelyn from Joeves, Donna Evelyn
- Knobler, Carolyn Berk from Berk, Carolyn Schilian
- MacNamee, Marion Twining from Twining, Marion Constance
- Miller, Kersti from Lond, Kersti
- Mitronovas, Frederick from Mitronovas, Fred
- Pepe, Helena Cecilie from Franke, Helena Cecilie
- Sellers, Ellen Currier from Currier, Ellen Edna
- Shook, Willard Edward from Shook, William Edward
- Smith, Debra Diehm from Diehm, Debra Ann
- Springman, Carolyn Dimmick from Dimmick, Carolyn Jean
- "Your Miniature World" (miniatures and models)

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, Mar. 15

Eastern Intercollegiate Wrestling Championships, Rec Hall, 2 p.m. and 8 p.m.
Players production of "One's A Crowd" by Eugene Raskin, 8 p.m., Center Stage, Extension Conference Center.

Saturday, Mar. 16

Wrestling championships, semifinals at 2 p.m., finals at 8 p.m., Rec Hall.
Players production of "One's A Crowd," by Eugene Raskin, 8 p.m., Center Stage, Extension Conference Center.

Sunday, Mar. 17

Chapel Service, 10:55 a.m., Schwab Auditorium, Luther Harshbarger, the University Chaplain.

Hillel Lecture Series, 8 p.m., Hillel Auditorium. Dr. Leon Gorlow, associate professor of psychology, on "Freud: New Introductory Lectures on Psychoanalysis."

Faculty seminar on "What Present-Day Theologians Are Thinking", 8 p.m., The Chapel. The Rev. William McClain on "Karl Barth."

Monday, Mar. 18

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Albert Christ-Janer on "How to Look at Contemporary Paintings."

First meeting on Social Security, 4 p.m., 121 Sparks.

Mineral Economics Seminar, 4:10 p.m., 121 Mineral Industries, Dr. H. M. Davis, on "Trends in Extraction of the Nonferrous Metals."

Tuesday, Mar. 19

University Christian Association coffee hour, 3:30 p.m., Memorial Lounge, The Chapel. Discussion on "Relevance of the Christian Faith to Teacher Education," with Dr. James H. Moyer as guest.

Economics Seminar, Dining Room "C" of the HUB, 12 noon. S. I. Aufer, administrative assistant, College of Agriculture, on "Effects of Milk Control Commission Law On Costs of Milk To Consumers."

University Christian Association coffee hour, 3:30 p.m., The Chapel. Dr. James H. Moyer, guest.

Program of pantomime and harpsichord, 3:30 p.m., Schwab Auditorium. Reynolds and Chessid.

Physics Colloquium, 4:10 p.m., 117 Osmond Lab. Dr. Richard E. Cutkosky, Carnegie Tech, on "Meson-Neutron Interactions."

Wednesday, Mar. 20

Meeting on Social Security, 7 p.m., 121 Sparks.

Forestry Convocation, 11 a.m., 121 Sparks. Representatives of the U.S. Forest Service.

Thursday, Mar. 21

SAM dinner meeting, Hetzel Union Building. Dr. R. L. Arnoff, Case Institute of Technology, on "Applications of Operations Research to Production Scheduling."

Slavic Club Meeting, 7 p.m., 203 Willard Hall. E. C. Wareham, instructor in music, on "Nationalism in Russian Music."

Graduate School Faculty Meeting, 4:10 p.m., 121 Sparks. Pres. E. A. Walker on future problems the faculty should be considering.

Faculty Women's Club, "Fashion Through The Years," 1:30 p.m. and 7:30 p.m., Extension Conference Center.

Mineral Industries Open House Today

An open house featuring research in the field of the geological sciences is being held today sponsored by the Society of Sigma Xi.

Each year the Society sponsors an open house showing some aspects of research in one of the Colleges. This year's program includes research in the departments of geology, geophysics and geochemistry, and mineralogy, and the mineral constitution laboratories, the Mineral Industries Museum and Art Gallery.

The program will be from 4 to 6 p.m., with guided tours to begin in the Auditorium of the Mineral Sciences Building.

Social Science Symposium Features Conceptualization

A symposium on the general theme, "Conceptualization In Social Science Research" will be sponsored by the Social Science Research Center in the auditorium of the Hetzel Union Building on Thursday, Mar. 21, at 8 p.m.

Dr. Harold K. Schilling, dean of the Graduate School, will serve as moderator of the program, which will include discussions of studies related to the social sciences completed by Dr. J. H. Britton, associate professor of child development and family relationships; Dr. J. H. Grosslight, associate professor of psychology; and Dr. F. R. Matson, professor of archaeology.

Dr. Britton will discuss "Mental Health Status of Rural Older People"; Dr. Grosslight "Patterning Effect in Partial Reinforcement"; and Dr. Matson "The Ceramic Evidence of Culture Change in the Turkish Amouq—5000 to 1500 B.C."

Brief abstracts of the studies will be distributed to the audience for reference regarding the problem, methods, and findings. Each participant will discuss his study in terms of "The Nature and Degree of Conceptualization" which it illustrates.

Pantomime, Harpsichord Featured in Schwab

A program of music and pantomime, entitled "Counterpart," will be presented by Frans Reynerds and Herman Chessid at 3:30 p.m., Tuesday, Mar. 19 in Schwab Auditorium under the auspices of the School of the Arts. Admission is free.

Reyners studied pantomime under Etienne Decroux, considered the foremost exponent of the art in modern times. A native of Holland, he toured Europe with Decroux's troupe. He joined Chessid when he came to this country.

Chessid, a pupil of the well known harpsichordist Ralph Kirkpatrick, agreed with Reyners that pantomime and the music of the harpsichord contribute to each other.

Chicago Dean To Speak To Faculty On UCA Program

Dr. Jerald C. Brauer, dean of the Federated Theological Faculty of the University of Chicago will address a meeting of faculty and graduate students on Saturday, Mar. 23, in the Memorial Lounge of the Chapel.

The meeting will begin with dessert at 7:30 p.m. for which a charge of 25 cents will be made. Reservations should be made by calling the University Christian Association office, Ext. 541.

Dr. Brauer is an American church historian. His most recent publication is "Protestantism in America." His talk will be entitled "Basic Questions for the Christian Scholar."

Dr. Arnoff To Address Management Society

Dr. R. L. Arnoff, director of operations research group, engineering administration department, Case Institute of Technology, will address the Society for the Advancement of Management on Thursday, Mar. 21, at the Hetzel Union Building.

His subject will be: "Applications of Operations Research to Production Scheduling."

Central Library

March 15, 1957

PENN STATE COLLECTION

Senate Minutes

MINUTES OF THE MEETING OF MARCH 7, 1957

The University Senate met at 4:10 p.m. on March 7, 1957 in the Assembly Room of the HUB with Vice-President Lawrence E. Dennis presiding.

The secretary read a correction to the minutes of the February meeting as printed in the Faculty Bulletin for February 15, 1957. Section II, paragraph 4, of the recommendation of the Senate Committee on Educational Policy Regarding Programs Leading to Associate Degrees should read:

All Associate Degree candidates should fulfill 6 credits of English requirements as represented by E. Cmp. 1, E. Cmp. 5 or Spch. 200.

The motion to amend the minutes was seconded and passed. The minutes were approved as amended.

One hundred twelve senators signed the roll.

Communications from University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: Ruth W. Ayres (Ruth Gates), G. K. Nelson (A. J. Mastro), J. W. Markham (F. B. Marbut), M. Chiappetta (L. C. Hunt), E. L. Keller (T. S. Goas), C. L. Ferguson (J. S. Boyle), A. L. Bortree (A. J. Lu-deke), G. W. Brindley (A. W. Taylor), H. B. Sprague (A. C. Richer), R. W. Lindsay (A. I. Muan), F. G. Brickwedde (F. L. Carnahan), and A. W. Hutchison (J. R. Hayes).

A letter from O. R. MacKenzie, Dean of the College of Business Administration stated that B. H. Lethbridge, Jr. had been appointed as Director of Extension and would therefore be a member of the University Senate.

A letter from R. G. Bernreuter, Chairman of the Senate Committee on Committees, recommended that Ruth W. Ayres replace Ruth R. Honey on the Senate Committee on Research Policy. This recommendation had the approval of President Eric A. Walker.

Reports of Standing Committees

D. V. Josephson, Chairman of the SENATE COMMITTEE ON ACADEMIC STANDARDS, presented the report which had been distributed by mail prior to the meeting. He read the specific recommendations contained in the report and made a correction to the last statement on page two. It should read:

This rule applies to students admitted, re-admitted, or reinstated on or after September 1, 1955.

And a correction to Rule P-6b last line. It should read:

His dean shall also notify the student's parents or guardian.

Mr. Josephson moved the adoption of the report as corrected, with the further recommendation that it be referred to the Senate Committee on Rules for codification. The motion was seconded. There was considerable discussion of the revised Rule P-5 found on page 3. B. A. Whisler moved that the wording of Rule P-5 be amended to read:

The faculty of a College may at any time recommend to the President that a student be dropped from the University, placed on probation, or referred to either the Division of Intermediate Registration or Division of Counseling if his general scholastic record is, in its opinion, unsatisfactory or if he seems not adapted to the work of that College. A student thus referred to D.I.R. or D.O.C. may be accepted for enrollment therein with the view of later transfer to a College of the University. If not accepted for enrollment in the D.I.R. or D.O.C. he shall be dismissed from the University for unsatisfactory scholarship.

The motion was seconded and passed.

N. R. Sparks asked about statement No. 9 following Table I of the Appendix. Mr. Josephson replied that the last sentence should read:

No automatic drop actions at the end of off semester.

F. J. Simes moved that Rule P-3 on page 3, first line, be amended to read:

A student whose most recent semester average, or cumulative average, falls below 1.7. . The motion was seconded and lost.

The motion to adopt the recommendation of the committee as amended was passed. The report as amended, which is on file in the office of the secretary, is as follows:

Subject: Changes in Scholastic Action Standards

I. Need for Changes

On June 2, 1955 the Senate adopted a C (2.0) average graduation requirement (Rule E-1) to become effective September 1, 1955. In a report to the Senate on May 3, 1956 the Committee on Procedures recommended that the

University adopt a new schedule of action to implement this rule. The Senate Committee on Academic Standards was requested to study this situation and make recommendations.

II. Objective

The Committee first considered the C average graduation requirement and, by majority vote, agreed that it was an appropriate standard. The objective, then, was to develop a system of scholastic actions that would: 1) identify those students who had poor prospects for meeting the C average graduation requirement; 2) drop these students before the University and their parents had invested heavily in their college careers; 3) not discriminate against those students who, although they start poorly, improve sufficiently to meet the graduation requirements and; 4) avoid embarrassing situations where warning or probation did not precede drop action.

Toward this end the Committee held a number of meetings with the Dean of Admissions and Registrar, the Assistant Registrar, the Assistant to the Registrar, the Director of Counseling, and several members of the Committee on Procedures. Various data and tabulations relating to the possible effects of proposed systems of scholastic action were compiled and analyzed (see Appendix). The record of the classes that completed the Spring semester 1956 was analyzed in terms of the various alternative systems.

As a result of these deliberations, the Committee concluded that there were decided advantages for the University to have uniform minimum scholastic action standards and has prepared such a standard for consideration. In view of this, it is hoped that all Colleges will give any uniform schedule of action adopted a trial before developing independent schedules which would complicate the administrative processes and public relations of the University.

III. Proposed Changes

The Committee recommends the following changes in the Senate Regulations for Undergraduate Students (subject to codification by the Senate Committee on Rules). These changes are felt to be in substantial accord with the intent of the recommendations of the Committee on Procedures, set forth in Appendix B of the May 3, 1956 Senate Agenda. Because of the large number of changes herein recommended and the lack of continuity in the present rules, the Committee feels that a complete reorganization and renumbering of the P rules is desirable.

Specific Recommendations

1. That the last paragraph of rule M-3 be changed to read:

The grades A, B, C, and D are passing grades. The grade of D, while passing, is indicative of unsatisfactory scholarship. The grade of F is a failing grade and a course so graded must be repeated and passed if required for graduation.

2. Revise rule Q-2 as follows:

Academic probation shall be imposed by the Dean of Admissions in accordance with rules established by the University (See P-rules). At the time academic probation is imposed, the Dean of Admissions shall furnish the student with a copy of Rule Q-1.

3. That the present P rules be deleted and replaced by the following:

P-1 (New drop action rule — 4-year degree students)

A student, except a candidate for an associate degree, shall be dropped from the University for unsatisfactory scholarship in accordance with the following schedule of action:

	If Cumulative Average Falls Below
Drop at end of	
2nd semester of attendance	1.4
4th semester of attendance	1.6
6th semester of attendance	1.8
8th semester of attendance	1.9

This rule applies to students admitted, re-admitted, or reinstated on or after September 1, 1955.

P-2 (New drop action rules — 2-year associate degree students)

This rule applies only to a student in an associate degree curriculum. An associate degree student shall be dropped from the University for unsatisfactory scholarship, in accordance with the following schedule of action:

	If Cumulative Average Falls Below
Drop at end of	
1st semester of attendance	1.0
2nd semester of attendance	1.6
3rd semester of attendance	1.8
4th semester of attendance	1.9

P-3 (new Probation rule)

A student whose most recent semester average falls below 1.7 shall be placed on probation unless drop action is taken under other rules. Such probation shall be recorded on the official University record of the student.

P-4 New Warning rule)

A student whose cumulative average, or most recent semester average, falls below 2.0 and who is not subject to drop action or probation, shall receive a warning notice pointing out that this average is below the standard required for graduation.

P-5 (Present P-5 revised)

The faculty of a College may at any time recommend to the President that a student be dropped from the University, placed on probation, or referred to either the Division of Intermediate Registration or Division of Counseling if his general scholastic record is, in its opinion, unsatisfactory or if he seems not adapted to the work of that College. A student thus referred to D. I. R. or D. O. C. may be accepted for enrollment therein with the view of later transfer to a College of the University. If not accepted for enrollment in the D. I. R. or D. O. C. he shall be dismissed from the University for unsatisfactory scholarship.

P-6 (Present P-2 with b section revised)

The following regulations shall govern below grades at mid-term and warnings by deans to students failing in their course work at that time.

a. At the end of the first eight weeks of each semester, the name and grade of each student, whose grade at that time falls below passing, must be reported by the instructor to the student's dean.

b. At the end of the first eight weeks of each semester, a student failing in two or more courses shall be so notified by his dean and warned of his unsatisfactory scholarship. His dean shall also notify the student's parents or guardian.

P-7 (Present P-10 revised)

The Dean of Admissions shall notify each student and his parents or guardian of any drop, probation or warning actions taken under this section of the rules.

P-8 (Present P-8 unchanged)

The regulations concerning unsatisfactory scholarship in a regular semester shall be applied to any summer session student who registers for twelve weeks of resident study and who registers for twelve or more credits in any one summer. A student of this University, prohibited by any rule thereof from further registration during the academic year, shall be excluded also from the summer session.

P-9 (Present P-9 unchanged)

Courses in which a grade of W, Ex., or P have been obtained, shall not be used in the application of any of these rules.

P-10 (P-7 revised)

A student enrolled in the Division of Intermediate Registration or the Division of Counseling shall remain enrolled therein for one semester. With the approval of the Director of the Division, enrollment may be continued for a second semester. A student not approved by the Director of the Division for a second semester, and not accepted by the dean of a College or a student not accepted by a dean of a College at the end of two semesters in the Division, shall be dismissed from the University for unsatisfactory scholarship.

The Senate Committee on Academic Standards moves the adoption of these rules, to become effective September 1, 1957, with the further recommendation that they be referred to the Senate Committee on Rules for codification.

J. D. Lawther, for the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report which had been distributed with the agenda as Appendix "A" on the General Education Requirement of Competence in Quantitative Thinking, and moved its adoption. The motion was seconded. After some discussion, D. G. Thevas moved that the report be laid on the table for discussion at the April meeting of the Senate. The motion was seconded and passed. The report, which is on file in the office of the secretary, is as follows:

General Education Requirement of Competence in Quantitative Thinking

The report of the Subcommittee on General Education (See Senate Agenda for October 7, 1954) recommended to the Senate that the University require all students who are candidates for a baccalaureate degree to show competence of various kinds before being admitted to junior standing. The Senate accepted this recommendation in principle, and voted that it be put into practice gradually, on an experimental basis, beginning with the skills in the use of English and in quantitative thinking.

We have had a subcommittee (see Senate Agenda for February 10, 1955) considering how this action of the Senate could be im-

plemented. As the result of their findings we now recommend the following:

Recommendations

1. All freshmen upon entering the University shall be required to take a comprehensive examination in Quantitative Thinking.
2. Remedial work shall be made available for those who fail this examination.
3. All students who are candidates for baccalaureate degrees must pass such examination before being admitted to junior standing.
4. The level of competence to be required for junior classification shall be that envisioned by the so-called Davis Test of Mathematical Competence. This recommendation is not to be interpreted to mean that this particular test be used, if another equivalent to it in the standards it demands can be devised within the University.
5. The Senate Committee on Academic Standards shall, in consultation with the examining staff, be responsible for determining the passing scores for junior classification, and for any other aspects of the administration of this examination in which academic standards and the academic calendar are involved.
6. The Senate shall request the University Administration to establish facilities and procedures for implementing these policies and regulations, and, if possible, to put them into effect the coming academic year.

The question has been asked whether the University should not specify competence in quantitative thinking as a requirement for entrance to the University. We have considered this at length and have concluded that it would not be wise to make such a requirement at this time.

It should be understood that the adoption of these recommendations is tantamount to establishing on a University-wide basis a new kind of graduation requirement, one specified in terms not of credits or course requirements, but of a particular kind of competence which students in all fields shall achieve. The establishment of this standard should be widely publicized throughout the state, so that parents and secondary school teachers and administrators shall be aware of it.

We formally recommend also that:

If it seems feasible administratively, failures in these examinations shall be reported back to the high schools where the failing students were graduated.

We are making these recommendations fully realizing that we shall encounter real problems as the program develops. We re-

cognize, too, that it will entail considerable amount of educational experimentation before examinations, remedial work and advising in this program can be adequate. We hope the Senate will accept this proposal in the same spirit, recognizing that the only way to solve such problems is to proceed experimentally.

We hope to make recommendations about competence in the use of English in the not too distant future.

Mr. Lawther then presented the report which had been distributed with the agenda as Appendix "B" Regarding the Responsibility of the University in the Education of Women, and moved its adoption. The motion was seconded and passed. The report, which is on file in the office of the secretary, is as follows:

Regarding the Responsibility of the University in the Education of Women

Last year a subcommittee of the Committee on Educational Policy gave thought to the question of the responsibilities of the University in the education of women, and prepared a comprehensive report on the subject. We have considered this at length and now wish to make the following report and policy recommendation. We regret that we were not able to do this sooner.

Today the colleges and universities of this country accept the principle of equal opportunity for women in higher education. The implementing of this basic democratic principle has been accepted more completely in the public universities in the Middle and Far West, but in the East the acceptance of equal opportunities for women has not been as fully accepted by providing equal facilities, curriculums, teachers and housing for women students as for men.

Pennsylvania, one of the wealthiest states in the Union, has resources to support a program of education for women equal to any program provided for men. Yet, it now ranks in the lower third of the states with regard to the number of women of college age who are enrolled in college. The University itself ranks in the lower one-fourth of all Land-Grant institutions with regard to the ratio of women students to men students.

Scholastic Qualifications of Women High School Students

The Commission on Education for Women of the American Council on Education states that only one-half of the highest two-fifths of high school graduates (male and female) go to college. Yet, even though more girls than boys are graduated from high school every year, only one-third of the girls in the upper two-fifths of the class enter college. This is due partly to the fact

that some of them cannot gain admittance and partly because others are not properly encouraged, as they should be, to go to college.

Real Need for University Trained Women

The very great and growing need for the services of women educated at the University level is almost universally recognized.

In today's closely integrated home and community life, the effectiveness of the woman's services to her husband and children, both in and out of the home, and to the community itself depends on the extent to which she is a socially well rounded and a well educated individual.

Moreover, since in our national economy more and more women must assume partial or complete support of dependents, an even greater number of women educated to fulfill this responsibility becomes a basic economic asset.

Recommendation

It shall be the policy of the Pennsylvania State University to provide equal educational opportunities for men and women students qualifying for admission. Moreover, the University shall as rapidly as resources permit make available additional facilities to accomplish this.

We hereby gratefully acknowledge the fine work done by our subcommittee consisting of: R. B. Dickerson, Grace M. Henderson, L. S. Roudiez, C. M. Sykes, C. O. Williams, R. B. Patrick, Chairman.

Their original report to us containing much valuable information is on file in the office of our secretary, John D. Lawther, where it is available for perusal by any member of the Senate.

The chairman stated that a report had been received from J. J. Rubin, Chairman of the special committee on "Specifications for the award to be given in recognition of superior teaching at the undergraduate level" and would be submitted to the Senate at the next meeting.

The secretary stated a letter had been received from W. E. White, Professor of Wood Technology, proposing an amendment to Rule O-2 of the Regulations for Undergraduate Students as follows:

Any student with a B or better average in a course may be exempt from the final examination in that course upon recommendation of the instructor.

Since this is new business it will lie on the table for one month. The letter will be duplicated and distributed with the agenda for the April meeting.

The next regular meeting of the Senate will be April 4, 1957 in the HUB with the agenda being distributed on March 21, 1957.

The meeting adjourned at 5:35 p.m.

C. O. WILLIAMS
Secretary

Items of Interest

Edgar E. Ambrosius, professor, and Robert D. Fellows, associate professor, of the mechanical engineering department, are authors of a new textbook entitled "Mechanical Engineering Laboratory Practice", published by The Ronald Press. The book is intended for undergraduate courses in heat power, power transmission, and machine design.

★ ★ ★

A book on "Properties of Petroleum Reservoir Fluids," by Dr. Emil J. Burcik, associate professor of petroleum and natural gas engineering, has been published by John Wiley and Sons, Inc. The book will be used in a short course in reservoir engineering starting Mar. 18.

★ ★ ★

Dr. C. Leonard Fergus, associate professor of botany and plant pathology, recently presented a summary of the past year's research on oak wilt at the annual meeting of the North Central Regional Oak Wilt Committee.

Benjamin W. Niebel, head of the department of industrial engineering, spoke on the subject "Industrial Activity on the Campus," at the annual Foundry Educational Foundation Conference in Cleveland, Ohio, this week. He also addressed the Northwestern Pennsylvania Society of Engineers.

★ ★ ★

Dr. Randall S. Stout, professor of public finance, has been named to the program committee for the 50th annual conference of the National Tax Association, to be held in the fall.

★ ★ ★

Arthur L. Williams, instructor in insurance, was honored guest at the 31st annual Insurance Day Banquet in Pittsburgh this week.

★ ★ ★

An article by Dr. Jacob J. Kaufman, associate professor of economics, on the subject of collective bargaining in the railroad industry, appears in the Centennial Issue of "Railway Age."

★ ★ ★

Dr. Clifford A. Anderson, professor of industrial engineering, attended the annual meeting of the American College Honor Societies at the University of Michigan recently. He is the national president of Alpha Phi Mu, industrial engineering honor society.

Three faculty members of the department of engineering mechanics presented papers at the second conference on the Mechanics of Elasticity and Plasticity sponsored recently by the Office of Ordnance Research in Washington, D.C. They included Dr. Norman Davids, professor; Dr. L. W. Hu, associate professor; and Sudhir Kumar, research assistant.

★ ★ ★

Dr. Philip S. Klein, professor of American history, recently addressed the Lancaster County Historical Society on the "Inauguration of James Buchanan." The occasion was the 100th anniversary of Buchanan's inauguration.

★ ★ ★

Dr. Elburt F. Osborn, dean of the College of Mineral Industries, has been named to the Scientific Advisory Committee of the Pennsylvania Selective Service System, succeeding President Eric A. Walker.

★ ★ ★

Dr. Hazel M. Hatcher, professor of home economics education, is participating in the program of the Upper Peninsula Homemaking Teachers' Conference in Marquette, Mich., today and tomorrow.

Integration Plan Explained

ON May 26, 27, and 28 all University employees who are members of the State Employees' Retirement System will cast their ballots to approve or disapprove a plan to integrate their present retirement system with that of Federal Social Security.

This means that about 3600 employees on campus and at various centers and experiment stations around the State will indicate their wishes. Not all University employees will vote—only those now a part of the present retirement system. Employees who are not eligible for SERS, such as part-time employees, will have no vote.

The initial vote, however, will not decide the issue of whether University employees will have Social Security. Some time after the initial vote, a second ballot will be taken of all those who voted "Yes" on the first ballot.

If more than half of all State employees voting on the second ballot say "Yes", then a contract will be made between the State and the Federal Government to provide the benefits of Social Security to State employees (including University employees).

Those who vote "no" on the first ballot or who do not vote at all will not receive the benefits of Social Security and, at least under present plans, will never be eligible to receive the benefits of the integration of Social Security and the State Employees Retirement System.

University officials have urged all eligible employees to register a vote on May 26, 27, or 28, whether yes or no.

Effective Date of Social Security

If the vote on the second ballot favors the plan to integrate the present retirement system and Social Security, the benefits of Social Security will be retroactive to Jan. 1, 1956 for any employee who voted "Yes" on the first ballot, if he was a member of the present retirement system as of Jan. 1, 1956. If he became a member later, the effective date will be the date he joined, with certain exceptions.

Not all employees now members of the State Employees Retirement System will find it to their advantage to vote for the integrated plan. Regardless, however, of the number who do elect coverage on the first ballot, the State will make the contract for Social Security coverage with the Federal Government if more than half of those voting on the second ballot indicate they wish to be covered. Since only those who voted "Yes" on the first ballot will be eligible to vote on the second ballot, it is expected that the integrated plan will be accepted.

Those who vote "No" on the first ballot or who fail to vote at all will continue with their present retirement system.

If the plan is accepted, all future employees of the University (and State) will be required to accept the integrated plan.

Benefits of the Integrated Plan

The plan on which University and State employees will vote is called an "integrated" plan because it combines the present State Employees Retirement System and Federal Social Security, but is not the total of the two. In other words, some benefits of the present SERS are reduced to take advantage of Social Security. The total benefits from the integrated plan are greater for most employees than are those of the present SERS program.

The proposed plan offers increased retirement allowances, together with many other insurances. Of particular interest are benefits under Social Security for widows and children of employees, for wives of retired employees, and for the retired employee himself.

Under the integration plan, employees will make contributions to both SERS and Social Security and may receive retirement allowances from both after age 65, or under certain disability provisions. For employees who have been members of SERS, retirement allowances will never be less than they would have been under the plan now in effect. For almost all employees they will be greater.

An employee who is otherwise eligible to do so may retire before age 65, in which case the retirement allowance he would receive under SERS will be paid in full under the integrated plan. At age 65, if he qualifies for Social Security benefits based on State service, part of his retirement allowance would then be paid by Social Security and the remainder by SERS. (A female employee may retire at 62 and begin receiving Social Security benefits.)

Cost of Added Benefits

Employees now pay a certain percentage of their salary to the SERS based on their age at the time of employment and their sex. For example, a male employee who entered the system at age 28 pays at the rate of 5.80 per cent of his salary. If his annual salary is \$4,000, he pays \$232.00 per year.

Social Security taxes are shared equally by the employer and employee. The rate paid by the employee for 1957 through 1959 (the percentage increases in periodic steps after 1959) will be 2 per cent of the salary up to \$4200, plus 0.25 per cent for disability insurance.

However, because the rate of contribution of employees to SERS will be reduced under the integrated plan, the added cost to this employee to obtain Social Security will not be 2 per cent but only 1.2 per cent of his salary up to \$4200 plus 0.25 per cent for disability insurance, or a total of 1.45 per cent.

In other words, the employee earning \$4,000 who entered SERS at age 28 (who now pays \$232 for his coverage) will pay \$290.00 per year for coverage under the integrated plan.

An employee making \$5,000, who entered SERS at age 28, is now paying

\$290.00. He will pay \$350.90 to be covered under the integrated plan, until 1959.

After 1959, Social Security rates increase so that by 1975 the employee will be paying 2.65 per cent of his salary up to \$4200 more than what he is now paying into SERS.

The net effect for all those whose yearly salary is \$4200 or more is that the added cost will be \$60.90 per year until 1959, increasing every five years by \$12.60 until the year 1975. By that time the amount will be \$111.30 more than the employee is paying for SERS per year now.

For an employee who is now making \$3600 per year, the added cost per year will be \$52.50 until 1959 and by 1975 will be \$95.40 more than he is paying now per year.

Since the plan, if it goes into effect, is retroactive to Jan. 1, 1956, each employee will be required to pay back contributions. These may be paid either in a lump sum or in a fixed number of installments by payroll deductions with interest at $\frac{1}{2}$ per cent per month. The back contributions will not include the one-quarter of one per cent tax for disability insurance for the year 1956.

(Ed. note: This is the first of several articles on the plan to integrate State Employees Retirement System and Federal Social Security.)

UCA Seminars Continue With Rev. McClain

The Rev. William McClain, pastor of the State College Presbyterian Church, will speak on "Karl Barth" on the second of a series of faculty seminars on the subject "What Present-Day Theologians Are Thinking," sponsored by the University Christian Association. The seminars are held each Monday evening at 8 p.m. in the Chapel.

The seminars began Mar. 11 and will continue until April 15. All members of the faculty are invited to attend. Future seminars will include discussions of H. Richard Niebuhr, Paul Tillich, Reinhold Niebuhr, and Rudolf Bultman.

Karl Barth, now teaching at the University of Basle, in Switzerland, is a leading European theologian.

Dr. Moyer To Lead UCA Coffee Hour

Dr. James H. Moyer, professor of education, will lead the discussion on "Relevance of the Christian Faith to Teacher Education" on the weekly coffee hour of the University Christian Association program at 3:30 p.m., Tuesday, Mar. 19 in the Helen Eakin Eisenhower Chapel.

Pres. Walker To Address Graduate School Faculty

Dr. Eric A. Walker, president of the University, will address the regular meeting of the faculty of the Graduate School at 4:10 p.m., Thursday, Mar. 21, 121 Sparks. He will discuss future problems facing the faculty.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, Mar. 22

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Richard H. Johns, department of geology, California Institute of Technology, on "Geologic Causes of Some Engineering Catastrophes in Southern California."

Players production of "One's A Crowd," 8 p.m., Center Stage, Extension Conference Center.

Saturday, Mar. 23

Players production of "One's A Crowd," 8 p.m., Center Stage, Extension Conference Center.

University Christian Association faculty desert-lecture, 7:30 p.m., Memorial Lounge, The Chapel. Dr. Gerald C. Brauer, dean of the Federated Theological Faculty of the University of Chicago, on "Basic Questions for the Christian Scholar."

Pennsylvania high school wrestling championships, 2 p.m. and 7:30 p.m., Rec Hall.

Sunday, Mar. 24

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Gerald C. Brauer, dean of the Federated Theological Faculty, University of Chicago. Annual spring concert of the Penn State Concert Blue Band, 3 p.m., Schwab Auditorium.

Hillel Lecture Series, 8 p.m., Hillel Auditorium. Dr. Laurent LeSage, professor of Romance languages, on "Gide: The Immoralist."

Monday, Mar. 25

UCA faculty seminars, 8 p.m., The Chapel. Rev. Donald McIlvride, acting director Westminster Foundation, on "The Life and Ministry of Jesus." Also, a seminar on "What Present-Day Theologians Are Thinking," with Dr. Luther Harshbarger, University chaplain, on "H. Richard Niebuhr."

Physics Colloquium, 4:10 p.m., 117 Osmond. Dr. A. Charlesby, Tube Investments Research Laboratory, Cambridge, England, on "Irradiation Effects on Solids."

Faculty Luncheon Club, 12 noon, Dining Room "A." HUB; Dr. F. G. Brickwedde, dean of the College of Chemistry and Physics on "The National Bureau of Standards."

Faculty meeting, College of Physical Education and Athletics, 7 p.m., Room 241, Recreational Building.

Mineral Economics seminar, 4:10 p.m., 121 Mineral Industries. Dr. E. W. Miller, on "Localization Factors in the Aluminum Industry."

Tuesday, Mar. 26

Vesper services, 4:30 p.m., The Chapel. Dr. Henry A. Finch, professor of philosophy, on "Thoughtless and Thoughtful Love."

Physics Colloquium 4:10 p.m., 117 Osmond. Dr. Robert N. Cotts, department of physics, Stanford University, on "Double Nuclear Magnetic Resonance."

UCA Coffee Hour, 3:30 to 4:30 p.m., Memorial Lounge, The Chapel. Guest: The Rev. Robert Starbuck and Dr. F. R. Matson; topic—"European Observations, 1956."

Philosophy colloquium, 4 p.m., 236 Sparks, Dr. Neal Riemer, associate professor of political science, on "Some Reflections on Ethical and Political Theory."

Plant Science Club meeting, 7:30 p.m., 111 Tyson Hall. Lawrence E. Dennis, vice president for academic affairs, on "The Changing Nature of the University."

Wednesday, Mar. 27

Matin service, 8:15 a.m., The Chapel. Rev. Paul Schradang, program director, Westminster Foundation.

Forestry convocation, 11 a.m., 121 Sparks. Fred C. Simmons, technologist, Forest Utilization Service, Northeastern Forest Experiment Station, in an illustrated lecture on "The Probable Effect of Developments in Logging and Milling On Forest Management."

Thursday, Mar. 28

Chemistry Colloquium, 8 p.m., 105 Walker Laboratory; Dr. Glenn A. Russell, General Electric Co., on "Directive Effects of Aliphatic Substitution."

Faculty meeting, College of Engineering and Architecture, 4:10 p.m., Mineral Sciences Auditorium.

Vesper Service, The Chapel, 4:30 p.m. The Rev. Donald McIlvride, acting director, Westminster Foundation.

Friday, Mar. 29

Joint colloquium of the College of Mineral Industries and the American Society for Engineering Education, 4:10 p.m., Mineral Sciences Auditorium. Dr. John Nielson, associate professor of metal sciences, College of Engineering, New York University, on "Soviet Engineering and Metallurgical Education."

Home Economics faculty meeting, 4:10 p.m., Room 14, Home Economics. Dr. John Ferguson, director of program and research, State Office of Administration.

Physics Colloquium, 4:10 p.m., 117 Osmond. Dr. Ernest D. Klemm, nuclear engineering department, University of Michigan, on "Angular Correlations."

College of Agriculture faculty meeting, 4:10 p.m., 109 Armsby Hall.

Players production of "One's A Crowd," 8 p.m., Center Stage, Extension Conference Center.

Dr. Erfft To Move To Rutgers Post

Dr. Kenneth R. Erfft, University comptroller, has been named to a similar post at Rutgers University, to succeed Albert S. Johnson, who died on Feb. 21.

Dr. Erfft was business manager of Furman University, Greenville, S.C., from 1946 until he came to Penn State in February, 1954. He will leave for his new position not later than April 15.

C. F. Heil Succumbs

Clinton F. Heil, professor of engineering research and assistant director of the Ordnance Research Laboratory, died Saturday, Mar. 16.

Heil came to Penn State in 1945 as assistant professor of engineering research at the Ordnance Lab. He was named assistant director of the Laboratory in 1952.

Penn State To Help In Study Of Aged

Penn State is one of 16 universities which have agreed to cooperate with the University of Michigan in a program to improve instruction and research in problems related to aging. The nationwide effort will be financed by a grant of \$203,940 to the University of Michigan made by the National Institutes of Health, U.S. Public Health Service.

Dr. Joseph H. Britton, associate professor of child development and family relationships and also chairman of the Committee for the Study of Adulthood, will represent Penn State on the executive committee of the Training Institute in Social Gerontology which will be established by the funds. He will also be a member of the Inter-University Council for the project.

Other cooperating universities include California, Chicago, Connecticut, Cornell, Duke, Florida, Harvard, Illinois, Iowa, Minnesota, Pittsburgh, Purdue, Syracuse, Washington (at St. Louis), and Wisconsin.

Faculty Seminar To Hear About H. Richard Niebuhr

Dr. Luther H. Harshbarger, University chaplain, will discuss H. Richard Niebuhr, of the faculty of the Divinity School, Yale University, on the program of the University Christian Association weekly faculty seminar at 8 p.m., Monday, Mar. 25 in the Chapel.

Dr. Niebuhr is a distinguished theologian and author. His most recent works are "The Meaning of Revelation" and "Christ and Culture."

This is the third seminar in the series on "What Present Day Theologians Are Thinking."

Band Concert Sunday

The annual spring concert of the Penn State Concert Blue Band will be held on Sunday, Mar. 24 at 3 p.m. in Schwab Auditorium.

Survivor Benefits Important In Proposed Integrated Plan

How Much Retirement Allowance

No employee's combined retirement allowance will be less under SERS and Social Security than it would have been under the SERS plan alone.

If the employee retires before 65, all his retirement allowance will come from SERS until he reaches 65. If he were eligible at age 65 for Social Security based on University service he would begin to receive a Social Security check, but his SERS check would be reduced. The **total** amount, however, would be greater than he was previously receiving. And when his wife reaches 62 the Social Security check could be even larger.

In computing the retirement allowance under SERS, the term "Final salary" is used. "Final salary" means the average yearly salary of any five high-est years.

The law provides that no employee's actual retirement allowance may be greater than 80 per cent of the "final salary," with the exception of those employees who had service prior to Jan. 1, 1956. The greater the percentage of employment before Jan. 1, 1956, the less the effect of the 80% rule.

Under present SERS optional methods of taking retiring benefits, there are three methods by which the employee may take his retirement allowance so that his dependents are taken care of in case of the retiree's death. In these options the amount paid to the retiree each month is less than it is if he does not provide for his dependents. Therefore, in applying the 80 per cent rule mentioned in the previous paragraph, the **actual** allowance is considered.

Female Employees

In general, the provisions of the integration plan apply to female employees the same way they do to male employees. There are some exceptions.

One exception is that she may retire at age 62, whereas for male employees Social Security retirement allowance doesn't start until age 65. Of course she may retire earlier than 62 with somewhat smaller allowance under SERS.

A woman whose husband is also covered under Social Security would be entitled to benefits based on her own earnings or to a wife's benefits based on her husband's earnings, whichever is the larger.

Calculations of the cost of the integration plan are different for women than for men but only because the costs were different under SERS. In other words, the extra cost of adding Social Security benefits is no larger for women than for men.

Survivor benefits are no different for women than for men. This is particularly valuable for widows with children under 18 years of age. Keep in mind,

however, that survivor benefits do not apply until the employee has been covered under Social Security for **five** years.

Benefits of Social Security

While the present SERS plan provides retirement, disability, and survivor's benefits, all of these benefits under the integrated plan are higher for most employees than under SERS alone. Both the employee and the State pay somewhat more for these increased benefits.

Increased retirement payments have already been explained. Family benefits for wife and children, especially, are substantially increased under the integrated plan. For example, an employee who retires at 65 and is fully insured under Social Security and whose "average salary" is \$4200 a year or more, will receive for a wife 62 years of age at the time of the employee's retirement a sum of \$40.80 per month. If the wife is 65 or over when the employee retires, the amount would be \$54.30. For each child under 18 years of age the amount is the same as for the wife.

Under SERS, the beneficiary payments depend on the option which the employee takes when he retires but in no case would the payment to a beneficiary be as much as it would be under Social Security. (Keep in mind, however, that an employee may get retirement benefits of some amount before age 65 but Social Security payments do not start until the employee is 65, except for women, for whom the minimum age is 62.)

Disability benefits are also substantially less under SERS than they would be under the integrated plan. The method of computation of the amounts of disability benefits is quite complicated under SERS. Under the integrated plan, disability payments depend on the employee's average monthly earnings, being the same as the old-age insurance benefits he would be eligible for if he were 65 on the official beginning date of his disability. Here again the amount of this payment is quite variable and requires some calculations.

Disability benefits under Social Security begin at age 50, if the employee is both fully and currently insured, and continue until age 65 when old-age insurance benefits begin. If the employee is disabled before age 50 he may have his social security record "frozen", protecting benefit rights until he resumes work.

Survivor benefits are an important consideration to the employee with a family to protect. Survivor's insurance payments for a widow, widower, child or parent begin at \$30 per month and may be as much as \$81.40 per month, depending on the average monthly

earnings (after 1950). For a widow and one child, they begin at \$45 per month and are as much as \$162.80. A lump-sum death benefit, also depending on average monthly earnings, varies from \$90 to \$255. Survivor benefits to a widow, age 62, apply if the employee is fully insured at the time of his death; to a widow regardless of age if employee is either fully or currently insured; to a dependent child under 18 (or disabled of any age) if the employee is either fully or currently insured; dependent parent (mother 62 or father 65) if employee is fully insured; dependent widower (65 or over) if employee is both fully and currently insured.

Social Security Off The Job

University employees, under some circumstances, have acquired some or full coverage under Social Security from employment on jobs not connected with the University.

It may be true, especially if these employees are fully insured, that they would not find it desirable to vote for the integration plan, but there are some circumstances under which it would still be to their advantage. One such person may be the employee who earned his full credits when the maximum coverage base was lower than \$4200, as it is now. The amount they paid in to Social Security was small compared to what they would pay in today; consequently, the amount they would receive in return would also be smaller.

These employees should also consider another factor—that of calculating the "average salary" on which their Social Security allowance is figured. There are a number of rules applying to this calculation which makes generalizations difficult, but those employees who had prior Social Security coverage, either in full or in part, may find that their average salary would be greatly reduced if they found it necessary to use salary figures during this prior coverage.

For example, in the earlier years of Social Security, the "maximum" salary was only \$3,000. Later the amount was increased to \$3600; finally a new maximum was established of \$4200. If the prior Social Security credits were earned in these early years, then the average salary for all the years of coverage would fall far below the maximum of \$4200.

Social Security retirement allowances may be figured on "average salaries" starting from three different dates. One of these is Jan. 1, 1937; a second is Jan. 1, 1951; a third, which applies only to younger employees, is the year in which the person became 22 years of age if that date was after 1950.

For most employees the average starting date, as of now, would be most advantageously figured on Jan. 1, 1951 (and retirement allowances are made on the basis of the most advantageous date). For some employees who had considerable Social Security coverage before 1951 and who are nearing retirement now, there may be some advantage in using the 1937 date. As a very broad generalization, the later date is

to the advantage of most persons.

There are two other reasons for voting "yes," even if the employee had prior Social Security coverage. Disability payments may be better under Social Security than under SERS. Disability payments depend on being "currently insured", which means having been covered under Social Security at least six quarters in the preceding three years. But disability payments also depend on having 20 quarters of coverage in the 40 calendar quarters before the beginning date of disability. Therefore, for all practical purposes, the prior Social Security service would not provide disability benefits.

Female employees, especially those who are important factors in their family's income, should also consider that "survivor's benefits" will not be paid to a dependent widower unless the employee was both fully and currently insured at the time of death. Nor will retirement payments for a dependent husband 65 or older be paid unless the female employee is both fully and currently insured under Social Security.

Working After Retirement

For some employees there will be considerable advantage in working after reaching retirement age.

If he retires at age 60, as he would be eligible to do under SERS, he would receive an SERS check each month based on his "final salary" and on his years of service under SERS. At age 65, he might also be eligible for a Social Security check if he had become fully insured either in his State employment or in Social Security Service after he retired. If he did not become fully insured for Social Security while he was in State service he would gain a very distinct advantage in working after retirement under Social Security until he had enough quarters to qualify for Social Security.

For example, a male employee who plans to retire on June 30, 1960, at age 60 would have 18 quarters by the time of his retirement. By law, he would be required to have 28 quarters to become eligible for Social Security at age 65, in 1965. Therefore he must work ten quarters under Social Security between 1960 and 1965, or 2½ years of that 5-year period. He should also consider important the fact that if he did not work in that period his average salary would be computed with five years with no salary included. (The law permits the exclusion of five lowest years of salary from 1951 on, but University employees will have used up this "bank" of five years in the computation because they were not covered under Social Security from 1951 to 1956.)

Moreover, this employee who earned some of his quarters after he retired from University employment would not be affected by the "offset" rule which reduces the amount of SERS payment allowance by some proportion of his Social Security allowance. He would get, in other words, a full SERS check plus a full Social Security check.

The employee who has earned enough credits while with the University to be

fully insured under Social Security may or may not find it desirable to work after retirement. If he retires at age 60 he may decide that it is desirable to work until 65 to maintain as high an "average salary" as possible, since those five years would be counted in computing his "average salary."

The employee who retires at age 65 (or female employee at 62) should keep in mind a provision of the law which reduces the Social Security benefit (until age 72) if the person receives wages or earnings from self employment exceeding \$1200 in any calendar year. For every \$80 over \$1200, one monthly Social Security payment is deducted. However, in any month in which the person earns less than \$80 (or renders substantial services in self-employment, the check is not withheld.

Those provisions do not apply for income from investments.

Benefits After You Leave

By joining the integrated plan University and State employees will enjoy a unique advantage over most other employees if they decide to terminate employment with the University.

Under their present retirement plan, they build up a "bank account" by their payments and when they terminate employment they may receive this bank account in a lump sum with 4 per cent interest compounded annually.

Under Social Security, taxes paid in are not refundable. However, the employee may go to other jobs and take his retirement with him, which is not true under SERS unless the other job is also covered by SERS.

Therefore, if the employee is covered under the integrated plan he gains the advantage of both these retirement systems. On the one hand he will be building up a nest egg which might help him with the added expenses usually associated with changing jobs, but he may also take the retirement credits of Social Security to another job and continue to earn towards retirement under Social Security.

The payments he will make into his SERS account under the integrated plan will be reduced below what he is now paying, but they will continue to add up to a sizeable nest egg over the years.

ED. NOTE: This is the second of a series on the plan to integrate the present State Employees Retirement System with Social Security. Future articles will contain typical questions and answers on the integrated plan.

Jupiter Observations Open To Public Tonight

Weather permitting, the observatories will be open to the public for observations of the planet Jupiter from 8 to 10 p.m. tonight and tomorrow night.

Jupiter, explains Dr. Carl A. Bauer, associate professor of physics, is now in retrograde, westward, motion in the constellation Virgo and will continue to be well placed for evening observations during the spring months.

The observatories are on east campus, near the Poultry Plant.

Gov. Leader Urges Students Consider Public Service

Gov. George M. Leader, addressing a crowd of 1,000 persons as the final event of the 4th annual College of Business Administration Career Day, urged college men and women to think in terms of careers in government.

Citing the need for more college graduates to fill the growing number of skilled positions, he pointed out the many new services provided by governments than in years past.

The Governor also warned against over-specialization in college, stressing the need for broad training as well as training in one profession. He pointed out that young men and women should be trained to assume their role in government, citing that "Nobody's profession or position is so important that he can deny his responsibility to government."

Rocket Society To Hear Hoffman

Samuel K. Hoffman, former professor of aeronautical engineering and now general manager of the Rocketdyne Division, North American Aviation, Inc., will address the local section of the American Rocket Society on Monday, April 1, at 7 p.m. in Room 105, Mechanical Engineering.

Wrestling Tickets On Sale At Rec Hall

Tickets for the National Collegiate Athletic Association wrestling championships, to be held at the University of Pittsburgh on Mar. 29 and 30, are on sale at the Athletic Association office in Recreation Building. They will remain on sale there until Mar. 27.

Dr. Gray To Speak On Spring Weekend

Dr. Peter Gray, head of the department of biological sciences at the University of Pittsburgh, will be one of the speakers for the College of Home Economics Spring Weekend program April 12 and 13.

Dr. Gray, who makes cooking a hobby and who appeared on a national television show recently on a quiz program, will speak on "That Man in the Kitchen."

Besides several books in his special field, Dr. Gray is also the author of "The Mistress Cook."

15 High School Seniors Get Alumni Scholarships

Alumni Memorial Scholarships, made possible by contributions to the annual Alumni Fund, have been awarded to 15 high school seniors from Penn State and five other states.

This is the fourth group to receive scholarships since the program was initiated in 1954. All the 1957 winners are in the upper tenth and the majority in the upper twentieth of their graduating classes.

Dr. Walker Makes Plea For More University Aid

ED. NOTE: The following are excerpts from a talk entitled "The Crisis in Higher Education in Pennsylvania," given by President Eric A. Walker before the Alumni Fund Class Agents of the Philadelphia Area on Wednesday, Mar. 20.

Last year . . . Penn State provided an education for about 12,000 of your sons and daughters at an average annual subsidy—in effect, a scholarship—of \$770 on the central campus at University Park and for many others in the centers and in special programs.

But are we doing all we should—or could—be doing? We don't think so.

A careful study . . . showed in (1950) that only a few more than one of five young men and women of college age in Pennsylvania were actually enrolled in a college or university anywhere in the United States. Pennsylvania ranked 32nd among the states, 10 states below the national average . . . There is good evidence that Pennsylvania has not increased its percentage (of high school graduates attending college) since 1950. In fact the percentage today may even be less. . . .

In 1955 . . . Pennsylvania's per capita expenditure for higher education was only \$3.59 a year. It ranked third from the bottom among the 48 states. Twenty-two of the states spent more than three times as much per person for higher education as did Pennsylvania, and 39 states spent more than twice as much per person. . . .

The budget recommended by the Governor for the 1957-59 biennium lists an expenditure of only \$3.43 per person for higher education in the Commonwealth. . . .

An expenditure of this sort would be understandable if Pennsylvania were a "have-not" state. . . . In 1954, Pennsylvania ranked a respectable fifteenth among the states in per capita personal income. If evenly divided among the entire population, Pennsylvania's income in 1954 would have given each man, woman, and child in the state \$1785. This means that, if Pennsylvanians did not share in the general increase in income between 1954 and 1955, they spent only one penny out of each \$5 of income for the state support of the education of their sons and daughters beyond high school. . . .

Since 1940 we have had to raise our fees from an average of \$164 to \$280 a year . . . A recent study of the fee structure at 68 state and land-grant institutions showed that Penn State ranked sixth from the top in fees for the sons and daughters of state residents. The fees at the University were almost \$100 a year above the average. . . .

. . . if we are to provide an education for the same percentage of Pennsylvania youth in the future as we do now, we shall almost have to double our facilities for higher education by 1970. Last fall, about 153,000 young men and women enrolled in Pennsylvania Col-

leges. If the same percentage enrolls in 1965, Pennsylvania institutions of higher education will have a fall enrollment of almost 228,000.

. . . It costs a third of a million dollars to raise faculty salaries at Penn State by only one per cent, and, although we are not attempting to eliminate the inequities of one biennium, it would require increases of 50 to 70 per cent in faculty salaries just to restore them to their comparative pre-World War II level. . . .

Governor Leader, operating under tremendous pressures to balance the Commonwealth's budget without imposing new taxes, found it impossible to implement this performance budget. Rather, he recommended a flat 10 per cent increase over the 1955-57 University appropriation, an increase of \$2.5 million.

We consider this to be a disaster budget. It would permit us barely to maintain our present programs. . . .

Items of Interest

Franklin H. Cook, professor of business law, is author of an article on electric distribution companies in the current issue of "The Public Utilities Fortnightly."

★ ★ ★

Dr. C. L. Fergus, associate professor of botany and plant pathology, spoke this week on "Oak Wilt" at the Massachusetts Tree Wardens, Arborists, and Utilities Conference held at the University of Massachusetts.

★ ★ ★

Dr. Harold K. Schilling, dean of the Graduate School, has been named to an advisory committee of the State Department of Public Instruction. The committee will study ways to meet the demand for scientists and engineers.

★ ★ ★

Dr. E. F. Osborn, dean of the College of Mineral Industries, was recently elected chairman of the National Science Foundation's Divisional Committee for the Mathematical, Physical and Engineering Sciences.

★ ★ ★

Dr. R. L. Slobod, head of the department of petroleum and natural gas engineering, has been appointed to the research committee of the Interstate Oil Compact Commission, which seeks to conserve oil and gas by prevention of physical waste. The Commission is supported by most of the oil-producing states.

★ ★ ★

A text on "How to Become a Successful Speaker" by Harold P. Zelko, professor of public speaking, will be printed in Japan by the Diamond-Sha Press. The book, published originally in 1950, was a 1952 Book-Of-The-Month selection by the Executive Book Club, New York.

Governor Leader is sensitive to Pennsylvania's needs for higher education and is well aware of the responsibilities of the Commonwealth for the education of its youth. For these reasons, we felt we had his tacit approval to go directly to the Legislature. This we have done. In doing so, we have reduced our request for funds for new students by three-fourths. We have made this reduction quite simply because the admission of new students involves a policy decision that only the people of Pennsylvania can make.

. . . To provide the funds, it is almost certain that new taxes will have to be levied. This is where the people of Pennsylvania come into the picture.

. . . If we stabilize our student population at its present level, (our sons and daughters) will have only one chance out of seven or eight by 1970.

Can we afford this? It is a question that you and your neighbors must decide.

Viktor Lowenfeld, head of the department of art education, was the keynote speaker at the convention of the International Council on Exceptional Children at the University of Michigan recently. He spoke on "The Meaning of Creativeness for the Exceptional Child."

★ ★ ★

Dr. Erwin W. Mueller, research professor of physics, will present a paper on "Heat Effects at Field Ion Emitters" at the 17th annual meeting on Electron Physics now in session at Massachusetts Institute of Technology. In the past week he spoke at Northwestern University, Carnegie Institute of Technology, and at a meeting of the Western New York section of the American Chemical Society in Buffalo, N.Y.

★ ★ ★

Dr. Winston R. Weisman, assistant professor of history of art and architecture, participated this week in a symposium at the University of Alabama on "The Place of the Creative Arts in the Liberal Arts Curriculum."

★ ★ ★

Dr. Hans A. Panofsky, professor of meteorology, has been elected president of the State College chapter, American Statistical Association. Dr. John C. Griffiths, head of the department of mineralogy, was elected vice-president, and Dr. William S. Ray, associate professor of psychology, secretary-treasurer.

★ ★ ★

H. Burton Musser, professor of agronomy, spoke this week at the annual turfgrass conference at Guelph, Ontario, Canada, and before a meeting of greens chairmen of the member clubs of the Royal Canadian Golf Association.

★ ★ ★

Dr. Rustum Roy, associate professor of geochemistry gave a talk on "Pressure as a Useful Variable in Solid State Chemistry," before the Chemical Physics Branch of the Signal Corps Engineering Laboratories at Fort Monmouth, N.J.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, Mar. 29

Joint Mineral Industries-ASEE colloquium, 4:10 p.m., Mineral Sciences Auditorium. Dr. John Nielson, New York University, on "Soviet Engineering Education and Research."

Faculty meeting, College of Agriculture, 4:10 p.m., 109 Armsby Hall.

Faculty meeting, College of Home Economics, 4:10 p.m., Room 14, Home Ec. Dr. John Ferguson, director of program and research, State Office of Administration.

Public lecture on "Hearing In Birds," by Prof. J. Schwartzkopf, University of Goettingen, Germany, 3:10 p.m., 113 Frear Lab.

Players production of "One's A Crowd," Center Stage, Extension Conference Center, 8 p.m.

Penn State Alumni Fund Class Agents, 8 p.m., Assembly Room, Hetzel Union Building. Dean Merritt A. Williamson, main speaker.

Physics Colloquium, 4:10 p.m., 117 Osmond. Dr. Ernest D. Klema, nuclear engineering department, University of Michigan, on "Angular Correlations."

Saturday, Mar. 30

Panel discussion on "A New Blueprint for Foreign Aid," 8 p.m. The Chapel, sponsored by University Christian Association and State College League of Women Voters. Panelists: Dr. Elton Atwater, Dr. Vaclav Mares, and Dr. Berry B. Lethbridge.

Combined Physics-Low Temperature Seminar, 12 noon, 117 Osmond. Dr. C. H. Blanchard, assistant professor of physics, on "Nuclear Spins."

Players production of "One's A Crowd," 8 p.m., Center Stage, Extension Conference Center, final show.

Sunday, Mar. 31

Chapel Service, 10:55 a.m., Schwab Auditorium. Speaker: Dr. Samuel Blizard, associate professor of rural sociology.

Hillel Lecture Series, 8 p.m., Hillel Auditorium. Dr. Harold Dickson, professor of history of art and architecture, on "Freedom and The Arts: Hogarth, Goya, Daumier."

Monday, April 1

Faculty Luncheon Club, 12 noon, dining room "A", HUB. Allen C. St. Clair, director of purchases, on "Purchasing Operations at Penn State."

Meeting of local section, American Rocket Society, 7 p.m., 105 Mechanical Engineering. Samuel K. Hoffman, general manager, Rocketdyne Division, North American Aviation, Inc., the speaker.

University Christian Association faculty seminars, 8 p.m., The Chapel. Rev. Donald McIlvride, acting director, Westminster Foundation, on "The Life and Ministry of Jesus." Also, seminar on "What Present Day Theologians Are Thinking," with Rev. Robert Starbuck, associate director of UCA, on Paul Tillich.

Priestley Lecture Series, Mineral Sciences Auditorium, 8 p.m. Dr. John Chipman, Mass. Institute of Technology, on the theme "Chemistry in the Metallurgy of Iron and Steel."

Mineral Economics Seminar, 4:10 p.m., 121 Mineral Industries. Dr. J. D. Ridge and J. N. Hoffman on "International Trade in Non Ferrous Metals."

Tuesday, April 2

Lecture by John Luther Adams, professor of Christian ethics, Harvard University, 8 p.m., The Chapel, on "Taking Time Seriously—The Theology of Political Responsibility." Two films on Eskimo life, "Nanook of the North" and "Angote," 7:30 p.m., 121 Sparks for students in archaeology and anthropology courses. Visitors are welcome.

UCA coffee hour, 3:30 p.m., Memorial Lounge, The Chapel.

Priestley Lecture Series, Mineral Sciences Auditorium, 8 p.m. Dr. John Chipman, on the theme "Chemistry in the Metallurgy of Iron and Steel."

Wednesday, April 3

Matin Service, The Chapel, 8:15 a.m., Rev. Earl Spencer, pastor, State College Baptist Church, in charge.

Slavic Club meeting, 7 p.m., 203 Willard Hall. Dr. Elton Atwater, head of the department of political science, on "Co-existence or No Existence."

Priestley Lecture Series, Mineral Sciences Auditorium, 8 p.m. Dr. John Chipman, on the theme "Chemistry in the Metallurgy of Iron and Steel."

Physics Colloquium, 4:10 p.m., 117 Osmond. Dr. Varkez Bakamjian, Northeastern University on "Relativity Theory."

Thursday, April 4

University Senate meeting, 4:10 p.m., Assembly Room, Hetzel Union Building.

Vesper Service, 4:15 p.m., The Chapel, Rev. Richard Nutt, Methodist minister to the University, in charge.

Priestley Lecture Series, Mineral Sciences Auditorium, 4:30 p.m. Dr. John Chipman, on the theme "Chemistry in the Metallurgy of Iron and Steel."

Thespians production of the Broadway musical "Guys and Dolls," 7:30 p.m., Schwab Auditorium. Tickets \$1.25.

Mathematics colloquium, 2:10 p.m., 228 Sparks. Dr. Orrin Frink, professor of mathematics, on "Geometry of Semi-Modular Lattices."

Friday, April 5

Talk on digital computers by Henry R. Brenner, Standard Oil Co., on "The Use of the IBM 650 Computer in Performing Wherry-Winer Factory Analyses," 8 p.m., 217 Willard Hall.

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. Markus Bath, Meteorological Institute, Uppsala, Sweden, on "Energy of Seismic Waves."

Priestley Lecture Series, 8 p.m., Mineral Sciences Auditorium. Dr. John Chipman, on the theme "Chemistry in the Metallurgy of Iron and Steel."

Opening night of the Players Production of "Jim Dandy," by William Saroyan, Center Stage, Extension Conference Center, 8 p.m.

Thespians production of "Guys and Dolls," 7:30 p.m., Schwab Auditorium, tickets \$1.50.

Physics Colloquium, 4:10 p.m., 117 Osmond. Dr. Robert J. Rubin, department of chemistry, University of Illinois, on "Vibrational Relaxation in a System of Diatomic Molecules."

Senate Meets Thursday

The University Senate will meet on Thursday, April 4, at 4:10 p.m. in the Assembly Room of the Hetzel Union Building.

Thespians Present Broadway Musical

The musical show, "Guys and Dolls," produced by the Penn State Thespians, will open on Thursday, April 4, at 7:30 p.m. in Schwab Auditorium. Tickets are \$1.25.

Three other performances will be given: Friday, April 5, at 7:30 p.m. (tickets \$1.50); Saturday, April 6, at 2 p.m. (tickets \$1.25); and Saturday, April 6, at 7:30 p.m. (tickets \$1.50).

Panel On Foreign Aid Held Tomorrow Night

A panel discussion on "A New Blueprint for Foreign Aid," third in a series on the current world crisis, will be held on Saturday, Mar. 30 at 8 p.m. in the Helen Eakin Eisenhower Chapel.

The series, open to the public, is sponsored by the University Christian Association and the State College League of Women Voters, to stimulate interest in United States foreign policy.

Dr. Elton Atwater, head of the department of political science and acting chairman of the Committee on International Understanding; Dr. Vaclav Mares, associate professor of economics; and Dr. Berry B. Lethbridge, associate professor of economics and director of Business Administration extension will be the panelists.

Dr. Atwater will summarize reports of the Fairless and Johnston committees which Congress is now considering. Dr. Mares will review the accomplishments of U.S. foreign aid programs. Dr. Lethbridge will evaluate a typical program of foreign aid under which he has worked in Turkey.

Ferguson To Address Home Ec Faculty Today

Dr. John H. Ferguson, professor of political science on leave as director of program and research of the State Office of Administration, will address the faculty of the College of Home Economics at 4:10 p.m. in Room 14, Home Economics Building, today.

Priestley Lectures Given By Dr. Chipman

Dr. John Chipman, head of the department of metallurgy at Massachusetts Institute of Technology, will present the annual Priestley Lectures beginning Monday, April 1 at 8 p.m. in the Mineral Sciences Auditorium.

The theme of the lectures will be "Chemistry in the Metallurgy of Iron and Steel."

The individual subjects for the series are: "Oxidation and Reduction in Molten Iron" (Monday); "Henry's Law in Metals" (Tuesday); "Metallurgical Slags" (Wednesday); "Hydrogen in Steelmaking" (Thursday); and "Dephlogisticated Air in the Steel Industry" (Friday). The Thursday lecture is at 4:30 p.m.; all others are at 8 p.m.

Dr. Chipman is a graduate of the University of the South and received his advanced degrees from the State University of Iowa and the University of California. He joined the faculty of M.I.T. in 1937 after teaching at Illinois Wesleyan University and Georgia School of Technology and serving as acting director of the research laboratories of Armco Steel Corp.

During World War II, he was affiliated with the metallurgy section of the Manhattan Project, at the University of Chicago. He is past president of the American Society for Metals and has won many honors in his field.

Editors Seminar Starts Wednesday

A two-day seminar on "The Newspaper's Role in Community Promotion and Development," sponsored by the Pennsylvania Society of Newspaper Editors, will start Wednesday, April 3.

The seminar is held annually to help newsmen become better acquainted with community problems and in other areas. Co-chairmen of the program are I. W. Cole, director of the school of journalism, and Roger B. Saylor, professor of business statistics.

Faculty speakers on the program will include Dr. Jessie R. Bernard, professor of sociology; Dr. Albert Christ-Janer, director of the school of the arts; Fred M. Coombs, professor of physical education; R. Rupert Kountz, professor of sanitary engineering; and Dr. Harold F. Alderfer, professor of political science now with the Urban Renewal Administration, Washington, D.C.

State Senator Jo Hays, of Centre County, will be one of the State officials participating.

Computer Talk Listed By Standard Oil Man

Henry R. Brenner, industrial relations department of the Standard Oil Co., will be the speaker Friday, April 5, at 8 p.m. in Room 217 Willard Hall on the continuing program of discussions related to the use of digital computers.

Brenner will speak on "The Use of the IBM 650 Computer in Performing Wherry-Winer Factor Analyses."

Items of Interest

Dr. Arthur H. Waynick, head of the department of electrical engineering, was recently honored for his outstanding service by being elected to the grade of Fellow in the Institute of Radio Engineers.

* * *

Joseph Intorre, associate in charge of driver training of the Institute of Public Safety, who is president of the Pennsylvania Association for Safety Education will preside at the business meetings of the association at its annual conference in Mechanicsburg, Pa., on April 5 and 6. Amos E. Neyhart, administrative head of the Institute of Public Safety, and Harry Fletcher, specialist in fleet training, will also take part in the conference.

* * *

Dr. Lester P. Guest, professor of psychology, is author of a book titled "Beginning Statistics," recently published by Crowell and Co.

* * *

Two articles by Dr. John Corso, associate professor of psychology, were published recently. One titled "Absolute Judgments of Musical Tonality," published in the Journal of Acoustical Society of America, was written with the co-operation of Barry S. Brinsmaid, assistant professor of music. The second article, published in the Psychological Bulletin, deals with the quantum theory of sensory discrimination.

* * *

Dr. Malcolm McQuarrie, assistant professor of ceramic technology; Roy G. Ehman, associate professor of mineral technology extension; and Donald C. Jones, director of Mineral Industries Extension Services attended the joint meeting of the American Ceramic Society and the Pennsylvania Ceramic Association in Philadelphia recently. Ehman is secretary of the Association.

* * *

Dr. W. A. Weyl, chairman of the division of mineral technology, spoke to the Western Maryland section of the American Chemical Society recently on the roles of sodium-lime and alkalis in glass.

* * *

Robert J. Urlick, professor of engineering research at the Ordnance Research Laboratory, is co-author with Robert M. Hoover, former research associate, of a paper on "Sea Clutter in Radar and Sonar" presented recently at the Institute of Radio Engineers meeting in New York.

Title Changed

The designation of the Office of Foreign Student Affairs has been changed to Office of International Student Affairs. Richard C. Maloney, director of the office, will have the title of director of International Student Affairs.

Progress In Research

A one-year grant of \$17,296 from the U.S. Air Force will support research in a project in meteorology on "Statistical Analysis of Large Scale Circulation Patterns and Solar-Weather Relationships," under the direction of Dr. Hans Neuberger, head of the department of meteorology.

The project is aimed at some understanding of how solar phenomena affect the earth's atmosphere and weather. Fluctuations occurring in the sun, such as sun spots and temperature variations in the solar atmosphere, will be studied.

Increase in ultra-violet rays caused by solar temperature variations are known to disturb the upper atmosphere, but it has not yet been shown if they have any effect on the earth's weather.

Complicated analysis of the power spectrum will require services of the digital computer, PENNSTAC.

Dr. Hans Panofsky, professor of meteorology, Paul R. Julian, instructor, and Mae Lethbridge, research assistant, will also work on the project.

* * *

Learning why lithium improves glass in its electrical and optical properties will be the object of a study in glass technology supported by a research grant from the American Lithium Institute, which is also providing a fellowship in the division of mineral technology.

Lithium glass, now widely used in television picture tubes is strong but yet of light weight. The fundamental reasons lithium contributes these properties is as yet not understood.

The research will be under the direction of Dr. Woldemar A. Weyl, chairman of the division of mineral technology. Dr. Sigmund Urnes, a Norwegian glass technologist, has been named to the fellowship and will conduct the study.

* * *

To learn more about how the structure of molecules affects physical and chemical properties, Dr. Robert W. Taft, Jr., professor of chemistry, will continue with research in the field of reactivity and molecular structure under a second grant from the Alfred P. Sloan Foundation. The new grant of \$6,000 follows a similar grant of \$5,000 made last year by the Foundation.

Dr. Taft plans this year to investigate the distribution of charges in molecules by studying nuclear magnetic resonance spectra. Dr. Stanton Ehrenson will assist Dr. Taft as a post-doctoral fellow.

* * *

Dr. Hans Panofsky, professor of meteorology, will analyze data from diffusion experiments conducted by the Air Force last summer at O'Neill, Neb., to attempt to account for the spreading of air pollution by the wind structure.

The study, to be made under a \$10,000 grant from the Air Force, is to be made to shed new light on air pollution, which is growing more serious each year.

Integration Plan Questions Answered

Q. I am now 55 and plan to retire when I am 60. I will not have enough quarters when I am 65 to qualify for Social Security unless I work after I retire from the University. How much retirement allowance will I get?

A. If you do not become qualified for Social Security by the time you retire from the University, then your State Employees' Retirement System allowance will be the same as if you had not had the integrated plan. At age 65, the retirement allowance under SERS would not change. If you work enough quarters after you retire from the University, then you may qualify for a Social Security allowance which would be in addition to the SERS allowance. The SERS allowance would not be reduced by any amount, if you were not qualified for Social Security based only on your University employment when you retired.

You should keep in mind however, that the amount of Social Security allowance you would receive would depend on your "average salary" over the period of employment under Social Security. If, in the period after you retire from the University you work at a reduced salary, then your average salary may be considerably under the amount you are now averaging. Therefore your Social Security check may not be as high as if you had worked at the University until age 65.

The general rule to apply, however, is that if you were not "fully insured" when you retired from the University, with Social Security credits based on University employment only, then your SERS retirement allowance would not be altered in any way. Those who are fully insured when they retire, will find their SERS allowance "offset" (reduced) by as much as 40 per cent of their Social Security allowance.

Q. I am now 52. If I become disabled so that I could not work, would I be eligible for disability benefits?

A. There are certain disability provisions under your present SERS program, if you have been under SERS for at least five years. Under the integrated plan, you would also be eligible for Social Security disability benefits after a six-months waiting period if you were both fully and currently insured (on the beginning date of the disability) and had 20 quarters of coverage in the 40 calendar quarters before the beginning date of your disability. There are also disability provisions in your group life insurance policy. Assuming you are eligible, you might receive disability benefits from all three sources at the same time.

Note that Social Security disability benefits apply only to those between the ages of 50 and 65.

ED. NOTE: We will welcome questions of a general nature on the proposed integration plan. No individual calculations can be made, however.

Q. I began work at the University Mar. 30, 1956, at the age of 57. Will I receive Social Security retirement allowance if I join the integrated plan?

A. If you retire in the first half of 1964, at age 65, you will need 26 quarters of coverage to be eligible for Social Security coverage. You would probably have only 25 quarters at that time. If you can find employment to pick up the other quarter after you retire from the University, then you would be fully insured and eligible for a Social Security allowance. Of course, if you had previous employment under Social Security, you could apply the number of quarters you earned under the previous employment and may not need to work after age 65.

Q. I am now employed part-time in an outside job which is covered under Social Security, and have already earned 16 quarters of coverage. It looks as though I could get my 40 quarters of coverage under this employment eventually. What would I stand to gain by joining the integrated plan?

A. First, you should determine whether your assurance of obtaining 40 quarters under your part-time employment is substantial enough that you would not have to depend on similar coverage under University employment. If you vote "no" on May 26, 27 and 28, you will not be able to join the integrated plan at any future date and you would have to depend entirely on your outside employment to acquire enough quarters.

Second, remember that your retirement allowance will depend on your "average salary." If you are covered under both your University employment and your outside employment, then you will be increasing your "average salary" unless you are already at the maximum of \$4200 in your outside employment. The "average salary" is figured on the amount on which you pay Social Security taxes and if this amount on your outside employment is substantially below your University salary, then you would stand to gain considerably by accepting the integrated plan.

On the other hand, if your Social Security eligibility is based on your outside employment, your State Employees' Retirement System retirement allowance would not be reduced by some proportion of your Social Security check when it comes time to retire. In other words, you would receive a full SERS check and Social Security check based on your "average salary."

Of course your additional payments for the integrated plan, over what you

are now paying into SERS, would be independent of your outside employment. You would pay in just as much as if you had no outside employment.

Q. Since we will be paying in less under the integrated plan to our State retirement, how can we get as much back in a retirement allowance as we would under SERS alone?

A. The answer is simply that the State will be paying a slightly larger amount into SERS. Employees need not feel that their SERS benefits are any less under the integrated plan than formerly. They are actually greater.

Q. I understand that if the integrated plan is voted favorably that all future employees, whether full-time or part-time will also have to take it. Is this true?

A. All future employees would have to take Social Security, but not necessarily the integrated plan. All full-time, regular employees (except those above 50 years of age) would be required to take the integrated plan and all other employees would be required to take Social Security (but would not receive the benefits of SERS). The latter rule applies primarily to part-time employees.

These rules apply only after the contract between the State and Federal Social Security has been signed, expected to be in late August.

Q. I am the wife of a University employee. I am also employed and under the present SERS plan. What would I gain by voting for the integrated plan?

A. Probably your greatest gain is in seeking full Social Security privileges for yourself. If your husband should die before becoming fully insured, no payments would be made to you as his widow unless you had a dependent child. On the other hand, you may, by the time you have reached 62, have earned enough quarters to be eligible for a full Social Security allowance.

Secondly, you may earn enough credits to protect your children or dependent parents on your own right.

Thirdly, in the event of your death, a lump-sum payment would be made to your widower or to the person who paid your burial expenses.

Fourthly, you would be eligible for disability payments at age 50.

Finally, if your retirement benefit in your own right be larger than what you would have received as the wife of an employee, you would receive the larger amount. As the wife of a retiree, you would receive half the amount he receives. On your own right, you may receive more than that amount, especially if your "average salary" is high enough.

Chapel Activities Listed

Dr. Samuel Blizzard, associate professor of rural sociology, will be the speaker at Chapel services at 10:55 a.m. in Schwab Auditorium on Sunday, Mar. 31.

Episcopal Services will be held at 9 a.m. in The Chapel.

* * *

Noon prayer services are offered in the Meditation Chapel each Monday and Friday at 12:45 p.m.

Tuesday and Thursday vesper services at 4:30 p.m. are offered each week and matin service on Wednesday morning at 8:15 a.m. Preston Williams, assistant to the chaplain, will conduct the Tuesday service on April 2; Rev. Earl Spencer, pastor of the State College Baptist Church, the Wednesday matin service; and Rev. Richard Nutt, Methodist minister to the University, the Thursday vesper service.

* * *

The weekly faculty seminars on Monday evening at 8 p.m. continue this coming week. Rev. Donald McIlvride, acting director of the Westminster Foundation, will continue his discussions of "The Life and Ministry of Jesus."

Rev. Robert Starbuck, associate director of the University Christian Association, will discuss Paul Tillich, distinguished professor of Harvard University. He is author of several books, including "The Protestant Era" and "Systematic Theology." Tillich, who lectured on campus during the Centennial celebration, is a German theologian who fled Nazi Germany in the early 'thirties and has had a great impact on American theology.

* * *

The UCA coffee hour at 3:30 p.m., each Tuesday, will feature on April 2 a discussion on the 1957 faculty Summer Seminars on Creative Thinking, sponsored by the Danforth Foundation.

Brindley Lectures Twice At Missouri University

Dr. George W. Brindley, professor of solid-state technology and head of the department of ceramic technology, will give the O. M. Stewart Lecture at the University of Missouri today.

He will also participate in a seminar on "Problems in the Identification of Clays" at the university. He will then move to St. Louis, Mo., for the symposium on clay to be held by the American Association of Petroleum Geologists, April 1 to 4.

Harvard Professor Talk Scheduled For Tuesday

Dr. John Luther Adams, professor of Christian ethics at Harvard University, will present a lecture on "Taking Time Seriously—The Theology of Political Responsibility," at 8 p.m., Tuesday, April 2, in the Memorial Lounge of The Chapel.

The lecture is sponsored by the chair of religion of the University and the College of Liberal Arts Committee on International Affairs.

Alumni Fund Class Agents Meet Tonight

The 1957 Alumni Fund, launched last week with meetings of class agents in Newark, N.J. and Philadelphia, will continue with a meeting at the Hetzel Union Building at 8 p.m. tonight. Subsequent meetings will be held in Pittsburgh, Cleveland, Erie, and Buffalo, N.Y.

Dr. Merritt A. Williamson, dean of the College of Engineering and Architecture, will be the principal speaker tonight.

Four To Participate In Mentally Gifted Program

Dr. Franklin B. Krauss, head of the department of Romance Languages, and assistant professors Simon Belasco and Nicholas M. Brentin, will participate tomorrow in the program of the eighth annual conference of the Pennsylvania Association for the Study and Education of the Mentally Gifted. The conference is being held at the Altoona High School.

Belasco and Brentin will discuss the content, procedures, and techniques of instruction in French and Spanish for the mentally gifted students at the secondary and college level. Dr. Krauss will be chairman of the foreign language division of the conference.

Nore E. Wittman, assistant professor of German, will serve as consultant for the elementary level in the language area. She will also report on German classes she has been teaching the past three years. As national chairman of the committee on Foreign Languages in Elementary Schools of the American Association of Teachers of German, she has been instrumental in the introduction and spread of German in elementary schools in the State and nation.

Fulbright Applications Now Being Received

Applications for university lecturing and advanced research assignments under the Fulbright Act must be filed before April 25.

The awards for the 1958-59 academic year include assignments in Argentina, Australia, Burma, Chile, Colombia, Ecuador, India, New Zealand, Pakistan, Peru, Philippine Islands, and Thailand. Certain 1957-58 interim programs in Argentina, Israel, and Turkey are available at this time.

Programs for assignment in Austria, Belgium, Luxembourg, Denmark, Finland, France, Germany, Greece, Israel, Italy, Japan, The Netherlands, Norway, Turkey, the United Kingdom and Colonial Dependencies will be announced in June, although applications will be received from May 1 to Oct. 1.

Grants for lecturing abroad under the Smith-Mundt Act program will be available in approximately 40 countries.

Additional details on the programs are available through Robert E. Galbraith, professor of English composition.

Report from the Registrar

WITHDRAWALS (Campus)

- 3 Adams, David K., DIR, Feb. 19
- 1 Boucher, John M., ChE, Dec. 13
- 2 Buko, Stephen Julius, CE, Mar. 8
- 2 Bundorf, Larry D., For, Mar. 7
- Gr Cable, John William, Feb. 21
- 4 Campbell, Samuel Hadden, EE, Feb. 13
- 2 Cava, Peter M., DOC, Mar. 13
- 1 Clark, Marilou, JOURN, Feb. 7
- 2 Dilworth, Charles Albert, PH, Mar. 13
- Sp Drust, Gertrude Caroline, Mar. 11
- 4 Fehrenbach, Mona L., A&L, Mar. 6
- 4 Fitzgerald, Ethelanne, DIR, Mar. 12
- 6 Fox, Maurie S., Journ, Mar. 13
- 2 Frobe, Max Clifford, BA, Feb. 19
- 8 Funk, Barbara L., BusEd, Mar. 15
- 2 Goldman, William, BA, Feb. 28
- 4 Harper, Robert H., DIR, Feb. 4
- Gr Hartman, Joel A., Dec. 15
- 2 Hilton, Anne, SecEd, Feb. 23
- 4 Hoffman, Joel Edward, DIR, Feb. 1
- 1 Kanour, Robert B., EE, Feb. 28
- 6 Keiser, Howard Allen, ABCh, Mar. 12
- 4 Kent, Leonard J., DIR, Feb. 28
- 4 Kuba, Kenneth S., ME, Mar. 4
- 6 Long, Elizabeth Ann, ED, Mar. 4
- 2 Lybarger, Michael B., DIR, Mar. 6
- 1 Maser, Ronald E., BusAd, Mar. 1
- 2 McElwee, Joseph A., Met, Mar. 14
- 2 McGowan, William Clayton, Psy, Mar. 2
- 2 Mertz, Kenneth Roger, DIR, Mar. 5
- 1 Milburn, Donald Dale, EE, Feb. 26
- 1 Pandos, Robert J., DIR, Mar. 5
- 2 Peck, Mott, Jr., BusAd, Mar. 12
- 1 Pepe, Pasquale Joseph, CE, Mar. 1
- Sp Peters, Ila J., Mar. 4
- Gr Raker, Warren L., BA, Mar. 1
- 1 Rosen, Roy Kenneth, A&L, Feb. 26
- 1 Schenk, Vincent Roy, BA, Feb. 28
- 5 Snyder, Arthur Willis, AroE, Mar. 1
- Gr Stamus, Leonidas Peter, Geog, Mar. 6
- 2 Stover, William Lee, Mar. 8
- 2 Sutton, Lee Ray, DOC, Mar. 4
- 2 Thomas, David D., DIR, Mar. 1
- 1 Watson, Gerald W., IE, Mar. 8
- 4 Weaver, William Charles, ME, Mar. 2
- 4 White, James C. Jr., A&L, Mar. 6
- 6 Wilkinson, Cuyler C., Psy, Feb. 26
- 3 Wilkinson, William Fernie, AH, Mar. 14
- 2 Wolfe, Elwood C., DOC, Mar. 4
- 1 Zrowka, Myron, BA, Mar. 8

WITHDRAWALS (Centers)

Bachelor Degree Program

- 2 Archambault, Charles Ronald, SecEd, Feb. 18
- 4 Burger, Russell Conwell, BA, Feb. 5
- 2 Callen, Thomas Hugh, ME, Feb. 11
- 1 Chase, Barry Mark, A&L, Feb. 12
- 1 Confair, William Freas, A&L, Mar. 6
- 1 Decker, David Douglas, P V, Feb. 9
- 2 Eckel, Frederick Monroe, ElEd, Feb. 11
- 2 Helt, Richard Bernard, Chem, Feb. 15
- 1 Herbert, Charles M., A&L, Feb. 8
- 4 Hoffman, Joel Edward, DIR, Feb. 4
- 4 Kearney, Charles A., EE, Mar. 11
- 2 Kepler, Donald F., SecEd, ar. 1
- 1 Lantzy, Robert C., ME, Mar. 5
- 3 Manin, Alan, Aero, Feb. 15
- 2 Mannino, Ralph Eugene, BA, Mar. 7
- 2 Mason, Gerald, P V, Feb. 26
- 4 Nyden, Carol Ann, BA, Mar. 6
- 2 Reynolds, William R., CE, Feb. 28
- 1 Snyder, David T., BA, Mar. 4
- 2 Weakland, Faber Charles, IE, Mar. 5
- 2 Kosoloski, Catherine A., SecEd, Feb. 21
- 2 Lawhorn, Davie Boisseau, EE, Feb. 22
- 2 Machung, John Charles, BA, Feb. 5
- 2 Matz, Frank John, ChE, Feb. 15
- 2 Novak, John Andrew, Metal, Feb. 12
- 1 Schigas, Edward Robert, EE, Jan. 18
- 1 Seprish, George M., IE, Feb. 22
- 2 Vitt, David A., BA, Feb. 4
- 1 Wetzel, Paul Ermert, BA, Mar. 1

Associate Degree Program

- 4 Ahlborn, Hervey Dunlap, Jr., DT, Mar. 12
- 1 Bender, Robert David, DT, Mar. 11
- 2 Goldie, William T., DDT, Feb. 14
- 2 Miller, Richard B., ET, Mar. 1
- 2 Palko, Thomas, DDT, Feb. 4
- 4 Silzer, Robert Ronald, DT, Feb. 22
- 1 Peck, Robert H., ET, Jan. 15
- 2 Sholtis, John Robert, ET, Feb. 4

Changes of Names

- Crandley, Jean Ogden from Ogden, Jean Twaddell
 Gladstone, Suzanne Pink from Pink, Suzanne Diane
 Hatcher, Susan Brainerd from Brainerd, Susan Law, Dorothea Marian from Hovan, Dorothea Marian
 Marshall, Jarnila Christina from Weisl, Jarnila Christina
 Maulucci, Eileen Mary from O'Donnell, Eileen Mary

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, April 5

Talk on digital computers by Henry R. Brenner, Standard Oil Co., on "The Use of the IBM 650 Computer in Performing Wherry-Winer Factor Analyses," 8 p.m., 217 Willard Hall.

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. Markus Bath, Meteorological Institute, Uppsala, Sweden on "Energy of Seismic Waves."

Priestly Lecture Series, 8 p.m., Mineral Sciences Auditorium. Dr. John Chipman, on the theme "Chemistry in the Metallurgy of Iron and Steel."

Opening night of the Players Production of Jim Dandy, by William Saroyan, Center Stage, Extension Conference Center, 9 p.m.

Thespian production of "Guys and Dolls," 7:30 p.m., Schwab Auditorium, tickets \$1.50.

Dr. Robert J. Rubin, department of chemistry, Physics Colloquium, 4:10 p.m., 117 Osmond. University of Illinois, on "Vibrational Relaxation in a System of Diatomic Molecules."

Observatories open 8 to 10 p.m. for observations of Jupiter and the moon.

Saturday, April 6

Baseball, versus Bucknell, 2:30 p.m., Beaver Field.

Thespian production of "Guys and Dolls," 7:30 p.m., Schwab Auditorium. Tickets \$1.50.

Players production of "Jim Dandy," by William Saroyan, Center Stage, Extension Conference Center, 8 p.m.

Observatories open 8 to 10 p.m. for observations of Jupiter and the moon.

Sunday, April 7

Chapel service, 10:55 a.m., Schwab Auditorium. Dr. Liston Pope, dean, Yale Divinity School.

Hillel Lecture Series, 8 p.m., Hillel Auditorium. Dr. Aaron Druckman, associate professor of philosophy, on "Supreme Court Decisions on Public School Segregation."

Student music recital, 3 p.m., Schwab Auditorium.

Monday, April 8

Faculty Luncheon Club, 12 noon, dining room "A," HUB.

Prayer service, 12:45, The Chapel.

Tuesday, April 9

Economics seminar, 12 noon, dining room "C," HUB. Henry Shore, Pittsburgh district director, National Labor Relations Board, on Recent Decisions on Freedom of Speech in Labor Relations."

Vesper services, 4:30 p.m., The Chapel. Dr. Howard Cutler, head of the department of economics, in charge.

Plant Science Club meeting, 7:30 p.m., Room 111, Tyson. Owen G. Williams, assistant agricultural and food attaché, British Embassy, Washington, D.C., on "Duties on an Agricultural Attaché and Some of the Problems Associated with the Work."

UCA coffee hour, 3:30 p.m., The Chapel. Dr. S. W. Blizzard, professor of sociology, guest. Topic: "A Study of the Function of the Parish Minister."

Joint Physics-Ionosphere Colloquium, 4:10 p.m., 117 Osmond. Dr. Herbert Friedman, Naval Research Laboratory, Washington, D.C., on "The Formation of the Ionospheric E-Region."

Wednesday, April 10

Meeting of American Society of Metals, 7:30 p.m., Mineral Sciences Auditorium. John Sands, Development and Research division, International Nickel Co. on "High Strength Alloy Constructional Steels."

Baseball, versus Western Maryland, 3:30 p.m., Beaver Field.

Thursday, April 11

Meeting of Liberal Arts faculty, 4:10 p.m., Room 121, Sparks.

Friday, April 12

Mineral Industries Seminar, 4 p.m., Mineral Sciences Auditorium. Dr. Malcolm A. Weiss, process research division, Esso Research and Engineering Co., on "Combustion Rates in Stirred Reactors."

Aquacade by Women's Recreation Association, 8 p.m., White Hall pool, on theme "Wide, Wide, World." (Also on Saturday, 8 p.m.) Tickets available at White Hall Wednesday, Thursday, Friday.

Prayer service, 12:45 p.m., The Chapel. Home Economics Spring Week-End Program begins.

Players production of "Jim Dandy," 8 p.m., Center Stage.

AAUP Arranges Television Demonstration, Discussion

A demonstration of educational television over the closed circuit used in many classes on campus will be given to faculty members on Tuesday, April 9, sponsored by the local chapter of the American Association of University Professors. The meeting is open to all faculty members.

A live presentation will be given at 8 p.m. in Room 20, Sparks, and telecast to Rooms 1, 11, 12, and 19. A panel discussion in Room 121, Sparks will follow the telecast.

Dr. Francis A. Babione, associate professor of marketing, will serve as moderator of the telecast and for the panel discussion. Panelists will include Drs. W. G. Mather, head of the department of sociology; G. K. Nelson, associate professor of accounting; A. H. Reede, professor of economics; Hans Neuberger, head of the department of meteorology; and C. G. Haas, assistant professor of chemistry. All but Dr. Haas will demonstrate and discuss methods they use in their regular t.v. classes.

Drs. C. R. Carpenter and L. P. Greenhill, director and associate director of the Instructional Research Program, will report on their studies of the use of t.v. as a teaching medium.

Noted Food Consultant Spring Weekend Speaker

Dr. Raymond W. Miller, consultant for the Food and Agriculture Organization of the United Nations and visiting lecturer of the Harvard Graduate School of Business Administration, will deliver the keynote address of the Home Economics Spring Week-End program at 4 p.m., Friday, April 12, in Schwab Auditorium.

The theme of the program is "Food Today — A Common Denominator of All People."

Dr. Miller, a world traveler, author, and radio commentator, has been president of Public Relations Research Associates; consultant for the International Rice Commission in Thailand; member of a technical committee on co-operatives in Asia; member of the International Planning team, Ford Foundation, in India. He is currently trustee of the American Institute of Cooperatives and of Agricultural Missions, Inc. He is also a member of the bar of the Supreme Court of the United States.

Two Social Security Meetings Remain

Two meetings concerned with the proposed plan to integrate the present State Employees Retirement System and Social Security remain on the schedule of eight meetings set up by Personnel Services to give faculty and staff members an opportunity to ask questions about the proposed plan.

Tuesday, April 9, at 7 p.m., in Room 121 Sparks, and Thursday, April 11, at 4 p.m., in Room 316 Sparks are the two dates remaining.

Attendance at the first meetings has been uniformly good and questions have been stimulating to those present, the Personnel Services division reports. Voting on the plan takes place on May 26, 27, and 28.

Meeting Cancelled

There will be no April meeting of the Graduate School faculty. The next meeting will take place on May 16.

Steps Needed To Assure Adequate Water Supply

Dr. Wakefield Dort, Jr., assistant professor of geology, believes that Pennsylvania should plan now to be sure of having adequate water supplies in the future.



THE tremendous growth of population, agriculture, and industry in recent years has caused the spectre of a water shortage to plague government and industrial leaders throughout most of the United States.

According to Dr. Wakefield Dort, Jr., assistant professor of geology, the greatest possible use must be made of existing water supplies, new sources must be located, and basic research concerning water problems encouraged if serious water shortages are to be avoided in the not too distant future.

Even Pennsylvania, a state which has the fairly good average rainfall of about 40 inches per year, will face these serious problems if steps are not taken now, Dort claims.

"In most parts of the State there are supplies of surface and subsurface water sufficient to satisfy present local demands," Dort says. "However, in some areas, especially centers of recent population increases and the sites of rapid industrial expansion, supplies of chemically and biologically pure water are far from adequate.

"Here great effort is being made to locate and stop pollution of existing supplies of water and to find additional pure sources. These additional supplies must come from subsurface reservoirs of ground water in most instances. To find them it will be necessary to carry out careful inventories of ground water and to make detailed studies of the geological formations and structures which control the occurrence of this water.

"Also needed is basic research which will lead to a better understanding of how water occurs and moves through permeable subsurface materials of all types."

Dort points out that investigations by the Ground Water Branch of the U. S. Geological Survey, in cooperation with the Pennsylvania Geological Survey, are now in progress in several parts of Pennsylvania including the Philadelphia-Delaware Valley area, the Wyoming Valley, and the western plateau region. The State Department of Forest and Water is engaged in studies of surface water conditions. And other state agencies are engaged in other studies of

the quality and quantity of water available in certain places. However, he claims that more of this work will be needed for the continued development of the State to be assured.

Dort predicts that by 1975 the United States will consume about 350 billion gallons of water per day in comparison with the present consumption of less than 200 billion gallons per day.

While it is absolutely essential that strict conservation measures be adopted, including prevention of pollution of both surface and subsurface sources of water, and that existing supplies be utilized to the fullest extent, including the industrial re-use of water wherever possible, the answer lies in tapping new sources of supply, Dort feels.

At present virtually all of the water now in use in Pennsylvania and elsewhere is of meteoric water, Dort explains. Regardless of whether it is now pumped from a surface source or a subterranean system, this water originally came from the sky as rain or snow, he adds.

"Not all of the water which falls onto the ground as precipitation becomes available to water supplies," Dort continues. "Some immediately returns to the atmosphere by evaporation. Some water is taken up at once by plants, is used in their life-growth processes and is then returned to the atmosphere by transpiration. Of the remainder of the water which falls as precipitation, some flows away on the surface of the ground, forming streams which may subsequently lose water to subsurface materials or gain water from underground sources.

Much of this surface run-off eventually reaches the ocean without ever being made available for use by water-short communities along the course of the streams. "It is entirely feasible to make more use of this surface water," Dort explains, "but it is often a costly proposition. It is all a matter of being willing to pay the price. There are very few geologic situations where it would be impossible to build a dam to store surface water. In many places, however, and especially on limestone bed-

rock, the cost of making the reservoir water-tight is entirely prohibitive.

Second possible solution is to store the water in suitable locations and then pipe it to the place where it is needed. This again may involve too great an expense to justify the project.

"Another part of the precipitation at once enters openings in the surficial material," Dort continues, "and gradually percolates downward into the bedrock beneath. Here again proportions vary with the intensity and duration of the rainfall and with conditions of the ground surface and of subsurface materials. These materials must be both porous and permeable if water is to percolate through them and collect to form supplies of underground water."

Unfortunately, it is not simply a matter of drilling a hole deep enough to be certain of finding a ground water source. Rock formations vary greatly in their porosity and permeability, and some rock bodies contain almost no water at all. Also, the level at which water does occur in subsurface materials does not necessarily follow the same contour as the land surface. This means that in two wells located close together, the water may be present at quite different depths, or one of the wells may contain no water at all.

Dort urges an expansion of ground water inventories and of basic research into the whole subject of the physical laws governing the occurrence and movement of ground water. "Overall, Pennsylvania can absorb many more industries and families without a serious water problem arising," Dort says. "In certain areas it appears that lack of readily available water will prevent further development. But the point is that in most instances we don't know whether this would be the case or not. We simply do not have the detailed geological information necessary on which sound judgment can be based."

"It makes sense, therefore, to precede community or industrial expansion by a complete study of the availability of adequate supplies of water. Then the financial losses which result from overbuilding may be prevented."

Items of Interest

David R. Mitchell, chairman of the division of mineral engineering, has been appointed a member of the Panel on Preparation of the National Coal Association. The panel serves as industry representatives to governmental and international conferences affecting the bituminous coal industry.

* * *

Arnold W. Asman, head of the department of mining, T. S. Spicer, professor of fuel technology, and Dr. S. C. Sun, associate professor of mineral preparation have recently been appointed to serve on committees of the Coal Division of the American Institute of Mining, Metallurgical and Petroleum Engineers.

* * *

Dr. Miriam E. Lowenberg, head of the department of foods and nutrition, this week participated in a conference on Nutrition Education in Washington, D. C. She spoke on "Nutrition Education for Pregnancy, Infancy, and Pre-School Children," and participated in workshop groups.

* * *

Dr. Grant W. Smith, professor of chemistry, was one of eight panelists recently who met in Washington, D. C., at the request of the National Science Foundation to aid in evaluating applications from educational institutions for the support of institutes for training science teachers.

* * *

William L. Werner, professor of American literature, delivered the opening address at the recent annual meeting of the Pennsylvania Association of Liberal Arts Colleges and Universities for the Advancement of Teaching. He spoke on "The Place of the Arts in Teacher Education."

* * *

Viktor Lowenfeld, head of the department of art education, gave the keynote address to the Georgia Education Association at Atlanta, Ga., recently. The talk was titled "The Meaning of Creativeness in the Atomic Age."

* * *

Dr. J. R. Mentzer, professor of electrical engineering, addressed the faculty of Pratt Institute, Brooklyn, N. Y., recently. He spoke on the engineering science curriculum at Penn State.

* * *

Dr. John G. Aston, professor of organic chemistry and director of the Low Temperature Laboratory, departed yesterday for Europe where he will participate in conferences at London and Amsterdam and give lectures at the University of Wales, St. Andrew's University in Scotland, and Oxford University. He will also visit several other universities.

George L. Donovan, manager of Associated Student Activities and the Hetzel Union Building, was installed this week as president of the Association of College Unions.

* * *

Dr. Robert W. Lindsay, professor of metallurgy, has been appointed to the 1957-58 nominating committee for national officers of the American Society for Metals.

* * *

Arnold W. Asman, professor of mining engineering and head of the department of mining, has resigned, effective June 30, to accept a position as product manager of mining equipment sales with the Robins Conveyor Division of Hewitt-Robins Inc., Stamford, Conn.

* * *

Dr. Fred G. Merkle, professor of soil technology, spoke before the annual meeting of the Northwestern Section of the Pennsylvania Potato Growers Association on Mar. 28. He discussed some aspects of the soil and fertilizer research he is currently conducting.

Dr. Walker Heads Task Force On Engineering Manpower

President Eric A. Walker will head a task force of manpower experts to visit representative industrial areas to encourage the development of local clinics aimed at determining the most effective ways of making use of America's engineering talent.

Dr. Howard L. Bevis, chairman of the National Committee for the Development of Scientists and Engineers, announced the appointment of Dr. Walker, who is vice-chairman of the National Committee.

Clinic areas will be selected from a tentative list which now includes Cleveland, Cincinnati, Philadelphia, Los Angeles, Lowell, Mass., York, Pa., Tulsa, Wilmington, Del., and Seattle.

The task force will work with the Engineers Joint Council, local engineering societies, educators, and industry in the areas to determine the most successful techniques for effective conservation of engineering manpower.

European Flights Available To Faculty, Staff Members

The University Christian Association office advises that some 15 spaces are available for faculty and staff members on the planes which will carry Penn State students to Europe this summer for their annual seminar.

The spaces, provided at minimum cost, are on regularly scheduled air lines which leave on June 20, June 27, July 4 from New York. Return flights will be made on July 3, Aug. 16, and Aug. 27, and the faculty or staff member may choose any combination of leaving and returning. Living accommodations in Europe should be made by the person himself.

For more information concerning these flights, contact the UCA office, Ext. 541.

Chapel Activities Listed

Dr. Liston Pope, dean of The Divinity School, Yale University, will be the speaker at the regular Chapel service at 10:55 a.m., Sunday April 7.

Eastern Orthodox service will be held at 8 a.m., in the Helen Eakin Eisenhower Chapel.

* * *

Noon prayer services on Monday and Friday at 12:45 p.m. are held each week in The Chapel.

* * *

Dr. Howard Cutler, professor and head of the department of economics, will conduct the Tuesday vesper service at 4:30 p.m. on April 9 in The Chapel; Rev. Brown Higginbotham, UCA staff associate the Wednesday matin service at 8:15 a.m.; and Rev. Melvin Whitmire, pastor of St. John's EUB Church the Thursday vesper service at 4:30 p.m., this coming week.

* * *

Faculty seminars on Monday, April 8 will be held at 8 p.m. in The Chapel. Rev. Donald McIlvride continues the seminar on "The Life and Ministry of Jesus."

The seminar on the theme "What Present Day Theologians Are Thinking" will have Dr. Thomas V. Gilpatrick, visiting instructor of political science, speaking on Reinhold Niebuhr.

* * *

The UCA coffee hour on Tuesday, April 9, at 3:30 p.m. will have as guest Dr. Samuel Bliizzard, professor of sociology, on "A Study of the Functions of the Parish Minister."

Grant-In-Aid For Chemical Engineering

An unrestricted grant-in-aid of \$4,000 to the department of chemical engineering has been made by the Hercules Powder Co. for the next academic year. Dr. Donald S. Cryder, department head, indicates that the grant will be used for a variety of purposes, including research and purchase of equipment.

Dr. DeGraff To Speak On Spring Weekend Program

Dr. Herrell DeGraff, Babcock professor of food economics at Cornell University, will be one of the featured speakers on the program of the eighth annual Home Economics Spring Weekend, April 12 and 13. He will discuss "World Food Production" during the program, which has as its central theme "Food Today — Common Denominator of All People."

As professor of land economics at Cornell, Dr. DeGraff developed courses of instruction in agricultural geography and food economics. In 1947 he attended the International Conference of Agricultural economists in England. In 1949 he held a special fellowship from the Rockefeller Foundation to study rural economic conditions in Mexico and in 1952-53 he was consultant on the Foundation's agricultural programs in Mexico and Colombia.

Study To Be Made On Young Dietary Habits

A grant of \$12,000 by the American Dairy Association will make possible a study by social scientists of the University on the subject of adolescent attitudes affecting milk consumption.

The research, under the auspices of the Social Science Research Center, will be under the direction of Dr. Ida Simpson, instructor in sociology, who will select a medium-size urban community in the State for a survey of adolescents and young adults from 12 through 25 years of age. They will be quizzed concerning food and beverage preferences, how diet habits change from time to time, and what forces direct their choices of foods and beverages.

Dr. Simpson will work with a consulting committee appointed by the Center. The committee will include:

Dr. Miriam Lowenberg, professor of foods and nutrition; Dr. Deno G. Thevaos, associate professor of psychology; Dr. Joseph Britton, associate professor of child development and family relations; Dr. Francena Nolan, assistant professor of home management; and Dr. M. E. John, professor of rural sociology.

Electrical Interruptions Scheduled In June

The complete, but still tentative, schedule of electrical interruptions on campus when service will be changed over from 2400 to 4160 volts has been announced by the Department of Physical Plant. The changeover will take place in June and will require service to be off for varied lengths of time.

The schedule, given to permit faculty and staff members to plan necessary arrangements during the shutdown, is as follows:

June 12 — Mineral Science, Mineral Industries, Willard Hall, Osmond Lab, McAllister Hall, Walker Lab, Boucke.

June 14 — Service Bldgs., Food Stores, Mechanical Engineering, Thermal Plant, Electrical Engineering, Waring Hall, Recreation Bldg., Nittany Lion Inn, Beaver Field, Ordnance Research Lab, Hamilton Hall, Thompson Hall, McKee Hall, Irvin, Watts and Jordan Halls, General Extension, Caddy House, Water Tower.

June 16 — Hetzel Union Bldg., Old Main, Armory, Schwab, Hospital, Grange Hall, Dairy Bldg., Old Dairy Barn, Sheep Barn, Beef Cattle Barn, Ag Engineering, Tyson Hall, Nurses' Home, Greenhouses, Spruce Cottage, Pine Cottage, Extension Conference Center.

June 17 — Sparks, Burrows, Library, Car-Whitmore Lab, Forestry, Pavilion, Armsby, negie, Chapel, Pond Lab, Woman's Hall, Weaver, Patterson, Frear, Buckhout, Physician's Residence, Ag Education.

June 18 — Engineering units, President's residence, Sackett, Petroleum Refining Lab, Simmons, McElwain, Home Economics, Home Economics South, Elm Cottage, Atherton Hall, White Hall, Temporary Classroom Bldg.

There will be interruptions of about 15 minutes in all of the above buildings on each of the scheduled days.

Other buildings not connected with the main power plant will also be affected but not for the 15-minute periods daily noted above. This schedule is as follows:

June 26 — NYA houses, Watson Project, Thompson Farm Wells, New Dairy Barns, Farm No. 3, Fruit Storage, Animal Disease Lab, Farm No. 10, Soil Erosion Project.

June 28 — Pollock Circle, Nittany Halls, Nittany Heating Plant.

July 1 — Poultry Plant, Observatory, Ice Rink, Reactor, Home Management Houses, Sewage Plant, Turkey Farm, Insectary.

Report from the Registrar

WITHDRAWALS (Campus)

- 2 Bailey, Roger Norman, CE, Mar. 7
- 6 Bergoudian, Juan, A&L, Mar. 12
- 6 Hafer, George B., Journ, Mar. 25
- 4 Klein, Stuart Marshall, ME, Mar. 16
- 2 Koenigsberg, Nathan, BA, Mar. 4
- 2 Miller, Carol P., A&L, Mar. 20
- 4 Reed, Thomas Livsey, AeroE, Mar. 21
- 2 Rudaitis, James Anthony, G&G, Mar. 23
- 4 Shelley, Jess B., ME, Mar. 22
- 4 Sheppard, Floyd Ralph, DIR, Mar. 22
- 2 Sklar, Caroline N., ElEd, Mar. 19
- 7 Sorkin, Gretta Elaine, ArtEd, Mar. 2
- Gr Warren, Howard Lee, Mar. 20
- 2 Zatalava, John Arthur, CE, Mar. 22

WITHDRAWALS (University Centers)

- Bachelor Degree Program*
- 2 Panati, Albert J., BA, Mar. 4
 - 2 Shane, Allen C., DIR, Mar. 14
 - 3 Vogt, Wilfred Louis, PM, Mar. 1
- Associate Degree Program*
- 3 Blazina, Stephen, DT, Feb. 25
 - 2 Eckart, Albert G., ET, Mar. 5
 - 2 Lake, Denton E., ET, Mar. 20
 - 2 Weber, Charles Thomas, DT, Mar. 18
- The following reasons were given for withdrawing: Personal 7, Scholastic 3, Transferring 1, Illness 8 and Financial 2.

CHANGE OF NAMES

Valdes, Mary Dide from Hannigan, Mary Madaline
Wallace, Phyllis Ann from Folk, Phyllis Ann

British Attache Speaks At Plant Science Meeting

Owen G. Williams, assistant agricultural and food attache of the British Embassy, Washington, D.C., will be the speaker on the program of the Plant Science Club meeting, Tuesday, April 9, at 7:30 p.m. in Room 111, Tyson Building.

Mr. Williams will speak on the subject "Duties of an Agricultural Attache and Some of the Problems Associated with the Work." The meeting is open to all interested persons.

Science Fair May 4

The fourth annual Science Fair of Central Pennsylvania will be held on campus on Saturday, May 4. Dr. T. R. Porter, associate professor of education, is chairman of the Science Fair Committee.

Any student enrolled in grade seven to grade twelve in public, private, or parochial school in Pennsylvania may compete in the Fair for a first prize of a \$1,000 scholarship provided by Sylvania Products, Inc. and other prizes. The exhibits will be open to the public on Saturday afternoon, May 4.

Graduate Record Exams Scheduled On April 27

The next Graduate Record Examinations will be held on campus on Saturday, April 27 at 8:45 a.m. and 1:45 p.m. Bulletins of information and application blanks are available in Room 117, Buckhout Laboratories. All applications must be received at Educational Testing Service, 20 Nassau St., Princeton, N.J., no later than April 12, 1957.

Q. and A. On

Integration

Q. I figure that with my length of service under SERS my retirement check would be more than 80 per cent of the "final salary." Does this mean that the check would automatically be reduced to 80 per cent of the final salary?

A. First, let's define "final salary." This is the salary on which SERS payments are made (not Social Security payments) and is the average of the five highest years of salary.

In any case in which the 80 per cent rule might apply, the amount reduced is taken from the SERS check, not the Social Security check. The SERS retirement allowance would not be reduced on that part of SERS service prior to Jan. 1, 1956. Therefore, employees having service before that date will find that their retirement checks may total more than 80 per cent. If the rule applies, however, it is applied on that part of the service after Jan. 1, 1956. In no case will the sum of the two checks be less than it would have been under SERS alone.

Some employees who have been covered under SERS for many years before Jan. 1, 1956 cannot apply the "two per cent rule," which says that your retirement allowance under SERS can be figured by multiplying the "final salary" by two per cent and also by the number of years of service. Generally speaking, this rule does apply, but not in all cases. For these cases also the 80 per cent rule would not necessarily apply.

Miss Arnold To Talk On Food Preparation

Mildred M. Arnold, regional representative of the American Institute of Baking, will be a guest speaker on the Home Economics Spring Weekend program April 12 and 13.

Miss Arnold will speak on "Work Smarter, Not Harder" and will demonstrate how food can be prepared with more thought and imagination but less physical effort. The talk will be given at 10 a.m., April 13, in Room 14, Home Economics Building.

Grant Supports Study On Oil-Bearing Sands

Dr. S. S. Marsden, associate professor of petroleum and natural gas engineering, has been awarded a one-year grant of \$4,600 by the American Chemical Society to support an investigation of the surface properties of petroleum reservoir sands.

The study will be limited to oil-bearing sandstone. Sample will be obtained from Bradford and subjected to various chemical and physical tests to determine why some sands have surfaces wetted by oil and others by water.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, April 12

Mineral Industries seminar, 4 p.m., Mineral Sciences Auditorium, Dr. Malcolm A. Weiss, process research division, Esso Research and Engineering Co., on "Combustion Rates in Stirred Reactors."

Aquacade by Women's Recreation Association, 8 p.m., White Building Pool, on theme "Wide, Wide World." Tickets available at White Building.

Prayer service, The Chapel, 12:45 p.m.
Home Economics Spring Weekend program begins at 9 a.m. Featured speaker, Dr. Raymond Miller, food consultant, United Nations, 4 p.m., Schwab Auditorium.

Players production of "Jim Dandy," by William Saroyan, 8 p.m., Center Stage.
Pennsylvania Well Water Contractors Conference.

Saturday, April 13

Varsity golf, versus Pennsylvania and Villanova, 1:30 p.m.

Varsity baseball, versus Pennsylvania, 2:30 p.m.

Varsity tennis, versus Pennsylvania, 1:30 p.m.

Players production of "Jim Dandy," 8 p.m., Center Stage.

Home Economics Spring weekend program continues.

Aquacade by Women's Recreation Association, 8 p.m., White Building Pool.

Joint Physics-Low Temperature seminar, 12 noon, 117 Osmond. Dr. R. G. Winter, assistant professor of physics, on "Beta Decay and the Neutrino."

Assembly of Region Three, Theta Chi Fraternity.

Sunday, April 14

Chapel Service, 10:55 a.m., Schwab Auditorium. Special Easter music with the Chapel Choir, directed by Willa C. Taylor. Meditation by Dr. Luther Harshbarger.

Women's Chorus recital, 3 p.m., Schwab Auditorium, under direction of Dr. W. Paul Campbell.

Spring conference of the Pennsylvania Association of District Superintendents begins. Ends April 16.

Monday, April 15

Noon prayer service, 12:45 p.m., The Chapel. Talk on Russia, with slides, by Dr. William Harkins, professor of Slavic languages, Columbia University. 7:30 p.m., 203 Willard Hall, sponsored by the Russian Area program and the Slavic Club.

Faculty Seminars, 8 p.m., The Chapel, concluding nights. Seminar on "The Life and Ministry of Jesus," with Rev. Donald McIlvride. Also, seminar on "What Present-Day Theologians Are Thinking," with Rev. Preston Williams discussing Rudolf Bultmann.

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Dr. Roy C. Buck, associate professor of rural sociology, on "From Youth to Adulthood: A Study of Mobility of Young People in Rural Pennsylvania."

Physics Colloquium, 4:10 p.m., 117 Osmond. Dr. Arnold Feingold, department of physics, University of Illinois, on "Tensor Versus Vector Coupling in Nuclei."

Tuesday, April 16

Vesper service, 4:30 p.m., The Chapel. Rev. Preston Williams in charge.

Wednesday, April 17

Matin service, 8:15 a.m., The Chapel. Rev. Melvin Whitmire, in charge.

Easter vacation begins 11:50 a.m., ends Wednesday, April 24, 1:10 p.m.

Meeting of Pennsylvania Approved Dairy Laboratory Directors Association begins.

Meeting of State Association, Artificial Breeding Cooperatives begins.

Thursday, April 18

Joint meeting of Central Pennsylvania and University Student chapters of the Society for the Advancement of Management, 6:30 p.m., Hetzel Union Building. Speaker: K. J. Cohen, fellow in industrial administration, Carnegie Institute of Technology, "Optimum Maintenance Policy Using Mathematical Models."

Saturday, April 20

Golf, versus Army, 1:30 p.m., University course.

Thursday, April 25

Analytical chemistry seminar, 1:10 p.m., 109 Osmond. Dr. John Wolszon, Marshall College, on "Application of Ion Exchange Resins to the Determination of Boron."

Matin service, 4:30 p.m., The Chapel, under direction of Rev. Arthur L. Ruths, student pastor, Grace Lutheran Church.

Conference of Municipal Managers.

Miss Wyland Appointed To Board of Trustees

Mary Jane Wyland, professor emerita of education, was appointed to the Board of Trustees on Wednesday by Gov. George M. Leader to fill one of the vacant positions on the board.

Dr. Wyland, who retired in 1952, joined the faculty in 1927. For many years she was chairman of the division of secondary education and supervisor of student teaching.

After her retirement, Miss Wyland served as program co-ordinator and acting executive director of the University Christian Association, in 1954-55.

In 1955, Dr. Wyland was named a Distinguished Alumna of Grinnell College, Grinnell, Ia., from which she graduated in 1905. She received a master of arts degree from Teachers College, Columbia University, and took additional graduate work at the University of Colorado, the University of Wisconsin, and the University of Chicago. She received the honorary doctor of laws degree from Juniata College in 1952 "for her wide influence on public and collegiate education in Pennsylvania."

MacKenzie Named Vice President

Ossian R. MacKenzie, dean of the College of Business Administration, has been named vice-president for Business Administration.

The appointment, announced by President Eric A. Walker today, was approved by the Board of Trustees on April 3 and became effective upon approval.

Dean MacKenzie has been serving as special assistant to the President for Business Affairs since last September. He fills a position created by the Board of Trustees in January. He will be responsible for the general supervision of the physical planning of construction and the operational activities of the University, including housing, personnel, employee relations, food service, purchasing, and physical plant.

MacKenzie was named to the then new position of dean of the College of Business Administration in 1953. He came to the campus from Columbia University, where he was assistant dean and director of the development program of the Graduate School of Business and assistant to the executive director of the American Assembly, a program of conferences designed to throw impartial light on the major problems which confront this country.

Home Ec Spring Weekend Program Starts Today

Dr. Raymond W. Miller, consultant for the Food and Agriculture Organization of the United Nations, headlines the two-day program for Home Economics Spring Week-End which begins today.

Lectures, demonstrations, exhibits, and tours feature the program which is expected to attract thousands.

Dr. Miller will speak at 4 p.m., today, in Schwab Auditorium. President Eric A. Walker will welcome the visitors at this session, with Dr. Grace M. Henderson, dean of the College of Home Economics, as chairman.

Central Library

Miss Mildred Smith

Senate Minutes

MINUTES OF THE MEETING OF APRIL 4, 1957

The University Senate met at 4:10 p.m. on Thursday, April 4, 1957 in the Assembly Room of the HUB with Dean L. E. Jackson presiding. Mr. Jackson expressed the regrets of President Eric A. Walker that he could not be present on account of the Annual Tour of Alumni Speaking Engagements. Vice President Dennis was representing the President at another meeting.

E. B. Stavely, assistant dean of the College of Engineering and Architecture, introduced Dr. Benjamin L. Snively, the new acting director of the Ordnance Research Laboratory.

The minutes of the March meeting were approved as printed in the Faculty Bulletin for March 15, 1957.

One hundred twenty-nine senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: W. H. Walters (R. D. Reifsnieder), R. W. Lindsay (A. I. Muan), E. W. Callenbach (G. O. Bressler), Ossian MacKenzie (W. M. Hench), F. W. Peikert (H. D. Bartlett), G. R. Kean (J. L. Gobble), E. R. Queer (W. E. Ranz), and R. E. Larson (L. D. Tukey).

A letter from the Committee on Committees stated that H. V. Walton would replace Ralph Blaney on the Senate Committee on Extension during Mr. Blaney's leave of absence.

A letter from the Secretary of the Board of Trustees stated that Ruth R. Honey had been named Director of Home Economics Research, effective February 1, 1957.

A letter from M. A. Williamson, Dean of the College of Engineering and Architecture, stated that B. L. Snively would be acting director of the Ordnance Research Laboratory during the leave of absence of G. G. Quarles, and would serve as a senator. Likewise a letter from H. K. Schilling, Dean of the Graduate School, that Elizabeth Hester would replace Ruth R. Honey as an elected senator.

The secretary read a letter from President Walker addressed to Harold J. Read, chairman of the Faculty Advisory Council as follows:

During the past several weeks I have discussed with various members of the faculty ways in which intra-University communication might be improved within the framework of orderly administration.

As you know, counterpart policy and administrative committees for the fields encompassed by the University's instruction, extension, and research programs have been established since October 1, 1956, on the Board of Trustees, within the administration, and in the University Senate. This arrangement, together with the Senate reorganization study now under way (which I hope will measurably increase the elected representation in the Senate), should enable the Senate to assume its rightful place in University policy-making as the duly authorized and effective voice of the faculty.

Within the near future I plan to appoint from among the elected members of the Senate a five-member President's Advisory Committee. This body will have as its primary function the development and strengthening of informal communications between the Office of the President and the faculty of the University. It is my hope that the President's Advisory Committee will be able to perform under the aegis of the Senate somewhat the same type of function that the Faculty Advisory Council has exercised as a non-Senate body over the past several years.

The establishment of the FAC was imperative at the time it came into being, and throughout its existence it has capably and distinctively fulfilled its basic mission. Now, however, I believe the need is for a somewhat different type of organization designed to buttress the Senate as the major faculty agency. I am therefore requesting the Deans of the Colleges not to conduct elections for the Faculty Advisory Council this Spring and shall consider it to be terminated as of April 30, 1957. Between now and then I hope that you and your associates will bring to a conclusion any pending business and forward to me whatever committee reports you may have completed and adopted during the current academic year.

Please extend to your colleagues on the Council my deep appreciation for the services they have rendered the University.

The Secretary stated that President Walker had received from Prof. J. J. Rubin the report of the special committee appointed to consider the specifications for a "recognition of superior teaching at the undergraduate level." While this was not a Senate matter the President had appointed the committee from the membership of the Senate and the report of the committee will be distributed to the Senate. Since the first announcement, the President has received money for the award.

REPORTS OF STANDING COMMITTEES

R. B. Saylor, Chairman of the SENATE COMMITTEE ON CALENDAR, presented the report which had been distributed with the agenda as Appendix "A" and moved its adoption. The motion, which was seconded and passed, follows:

The Calendar Committee recommends the following revision in the University calendar for the school year 1957-1958: "The Christmas recess shall end 8:00 a.m. Friday, January 3, 1958."

This would amount to the canceling of classes scheduled for Thursday afternoon, January 2, 1958.

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "B" and moved its adoption. The motion was seconded and passed. The report is on file in the office of the secretary.

C. C. DiIlio, Chairman of the SENATE COMMITTEE ON SCHOLARSHIPS AND AWARDS, presented the report which had been distributed at the meeting and moved the ratification by the Senate. The motion was seconded and passed. The report which had been approved by President Walker is as follows:

REPORT OF COMMITTEE ON SCHOLARSHIPS AND AWARDS

John W. White Medal

Gerald Elliot Cooper SC

John W. White Fellowships

(\$600 each)

Sheldon Amsel P M
Miriam Lowell Jones H EC

Evan Pugh Medals

Seniors
James Bernhard Anderson CH E
Ronald Karl Eisenhart ME E
James Kenneth Foyle ED
Robert David Jones B A
Edward Walker Wickersham D SC

Juniors
John Loyd Allen E SC
Marian Chandler Beatty JOURN
Francis John Fochler P M
Oliver Joseph Ginther P V
James Benny Miller B A
Anne Elizabeth Nitrauer ED
Lee Roy Everett Strawbridge E E

Phi Kappa Phi Freshman Scholarships (\$50 each)

William Witman Bickham, Jr. E E
Lee VanBremen A L

Laverna Wood Thomas Award

(\$25)

Donald Bruce Megahan '59 P N G

William S. Thomas Award

(\$25)

Francis Joseph Vojtasek '59 JOURN

R. W. Stone, Chairman of the SENATE COMMITTEE ON RESEARCH POLICY, presented the report which had been distributed with the agenda as Appendix "E". Mr. Stone moved that the report be accepted and that the recommendations in Part I be considered by the administration and the trustees. The motion was seconded and after discussion was passed. The report is as follows:

FIRST REPORT OF THE SENATE COMMITTEE ON RESEARCH POLICY

The foundation of a research policy rests on a clear conception of what a university should be and what the role of research should be in connection with it. In this report some initial recommendations are presented together with a condensed statement of basic principles. These principles will be developed in a subsequent report; comments and suggestions will be welcomed by the committee.

Part I — Recommendations

Research is a primary and not a secondary function of a university. The fundamental purpose of a university is the advancement of knowledge through research and instruction. Competent instruction, in turn, depends on the continuing acquisition and dissemination

of knowledge. Thus the heart of a true university is research.

1. It should be accepted as basic policy that: research is a primary function of the University; it is an essential part of the service which the University is obligated to render to the public.
2. Every department has a responsibility to conduct research as a normal function and should regularly have funds and staff time allocated for this purpose.
3. There should be adequate recognition and reward for significant research accomplishment.
4. The sabbatical leave system should be modified so that a faculty member of any professorial rank may be eligible for leave.
5. The resources and facilities of the University, in particular the library holdings, should be increased where necessary to meet the research needs of the departments.

Part II — General Statement on University Research

Research is a primary not a secondary function of a university. It is, in its own right, a part of the service which The Pennsylvania State University is obligated to provide to the Commonwealth. Although it can and should contribute to the other functions of the University, research is parallel, not subordinate to them. The value of research is thus to be gauged not only by benefits to the student body, the faculty, or the institution; but also by the contribution which it makes in and of itself to the advancement of knowledge.

The advancement of knowledge involves both discovery and distribution. There should be a proper balance between these two functions. As research is an activity which ultimately benefits the public, it is appropriate that it be paid for by public funds, and that the results of the investigations be made available for the public benefit. Consequently, along with the acquisition of knowledge we must consider its dissemination. This involves more than the publication of the results in journals that are read only by scholars. There is an obligation to inform the public. We must also consider the organization and interpretation of research results; and the actual training of persons who are to carry the research further, of experts who are competent to apply the research in other fields, and of teachers at such a level that they have a need of contact with the original sources of knowledge.

A university is obligated to maintain an atmosphere of freedom conducive to the birth and early growth of new ideas. This includes the accepted principles of academic freedom for instruction and freedom of inquiry. New ideas and their originators are frequently unpopular at first; even experts do not always recognize the value of a new concept until it has been developed to a certain point. Since ideas usually occur first to some individual, it is important that an individual's ideas should have a stimulating environment in which to grow. Many ideas will prove to be unsound but this should be established by free discussion, criticism and experiment. This freedom of inquiry is an essential condition which it is the duty of The Pennsylvania University to maintain.

Respectfully submitted,

Ruth W. Ayres, C. R. Carpenter, H. B. Curry, M. A. Farrell, ex-officio, E. R. Fitzgerald, E. A. Gross, R. R. Kountz, F. R. Matson, E. P. Strong, P. L. Walker, R. W. Stone, Chairman.

REPORTS OF SPECIAL COMMITTEES

The report of the Special Committee to Study the Organization of the Senate will be presented and considered at a special meeting of the Senate to be held on a date to be announced.

UNFINISHED BUSINESS

Mr. Schilling, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, moved that the report on Competence in Quantitative Thinking which had been tabled at the March meeting be removed from the table. The motion was seconded and passed. Mr. Schilling moved the adoption of the report as presented at the March meeting and printed on pages 842 and 843 of these minutes. The motion was seconded. He then referred to the supplementary report which had been distributed with the agenda as Appendix "C". After considerable discussion, R. G. Stoner moved the adoption of the following amendment as a substitute for the recommendations in the original motion:

1. Competence in elementary mathematical reasoning, at the level prescribed by the Committee on Educational Policy in its recommendation to the Senate at the meeting of 7 March 1957 shall be a general requirement for admission to the University.
2. The Senate Committee on Admissions,

in consultation with the Committee on Educational Policy or its Subcommittee, shall recommend to the Senate the manner in which this recommendation is to be implemented.

The motion was seconded. Following discussion of the amendment, R. R. Kountz moved that the motion be tabled until we get a better line of communication between the Senate and the committee. The motion was seconded and passed. The supplementary report is on file in the office of the secretary.

W. C. Bramble moved that the recommendation proposing an amendment to Rule O-2 of the Regulations for Undergraduate Students be removed from the table. The motion was seconded and passed.

Mr. Kountz moved the adoption of the recommendation in the letter which had been distributed with the agenda as Appendix "D". The motion was seconded. The recommendation was that Rule O-2 be amended as follows:

Any student with a B or better average in a course may be exempt from the final examination in that course upon recommendation of the instructor.

Miss Ruth Ayres, for the Subcommittee on the Superior Student of the Senate Committee on Educational Policy, stated that this matter had been referred to the Subcommittee on the Superior Student at an earlier date, and moved that discussion of this proposal be postponed until the report of the subcommittee would be presented to the Senate. The motion was seconded and after discussion was passed.

Joseph Jordan moved that the Educational Policy Committee consider the extension of sabbatical leave to all faculty members of professorial rank and make any recommendation it thinks fit in this matter. The motion was seconded and passed.

The Chairman reminded the Colleges that the names of the elected senators are to be submitted in writing to the secretary before the May meeting. The secretary will read the names at the May meeting.

The next regular meeting of the Senate will be on May 2, 1957. The agenda will be distributed on April 18, 1957.

C. O. Williams
Secretary

Concert Association Elects Officers

The Board of Directors of the State College Concerts Association has approved a constitutional change providing for a new makeup of the Board. The Board will consist of 16 representatives of the faculty and community; eight student members; and the director of the School of the Arts and the head of the department of music as ex-officio members.

Mrs. A. Harris Forbes succeeds David H. McKinley as president of the Association for the 1957-58 season. Other officers include Earl B. Stavely, vice-president; Mrs. A. William Hajjar, secretary; and Edmund H. Umberger, treasurer.

Robert W. Stone will be campaign chairman for next year, with Frank T. Kocher as co-chairman. William G. Noyes was appointed chairman of the transportation committee and W. W. Bierly publicity.

Women's Chorus Presents Program In Schwab Sunday

The University Women's Chorus, under the direction of Dr. W. Paul Campbell, associate professor of music education, will present its spring concert at 3 p.m., Sunday, April 14, in Schwab Auditorium.

The program will include several religious numbers, a Negro spiritual, 16th century chorale, and a Czecho Slovakian folk song.

Items of Interest

Dr. Michael A. Farrell, vice-president for research and director of the Agricultural Experiment Station, and Dr. Robert W. Stone, head of the department of bacteriology, have been invited to become charter fellows of the American Academy of Microbiology. The Academy is made up of microbiologists in all branches of the science in the United States and Canada.

Chester Linsky, assistant professor of industrial engineering, departed for Paris last week to represent the United States at the International Automation Conference. He will serve as consultant at the Conference.

Dr. R. N. Clayton, assistant professor of geochemistry, described a geochemical thermometer capable of taking temperatures as they existed millions of years ago at a recent Geochemistry Seminar held at Lamont Geological Observatory, Columbia University.

William D. O'Connell, assistant professor of electrical engineering, accompanied by two engineering students, attended the American Power Conference, in Chicago, Ill., recently.

David R. Mitchell, professor of mining engineering and chairman of the division of mineral engineering, has been appointed to membership on the Editorial Review Board of the National Coal Association.

Ralph H. Wherry, head of the department of commerce, addressed the Williamsport chapter of the National Association of Cost Accountants recently on "Risk Management."

Dr. Joseph H. Britton, associate professor of child development and family relationships, participated last week in a symposium on "Current Problems, Methods, Findings, and Needs for Research in Child Development" at a meeting of the Society for Research in Child Development at the State University of Iowa. He will attend a council meeting of the Multi-University Training Institute in Social Gerontology today and tomorrow.

Dr. William E. Ranz, professor of engineering research, discussed the characteristics and properties of aerosol systems in a seminar at the Army Chemical Center, Maryland, last week.

Dr. Grace M. Henderson, dean of the College of Home Economics, spoke at a meeting of the American Association of University Women this week on "Education for Women."

Dr. John D. Ridge, assistant dean for instruction of the College of Mineral Industries, has been appointed chairman of the nominating committee of the Council on Economics of the American Institute of Mining, Metallurgical and Petroleum Engineers. Dr. J. J. Schanz, assistant professor of mineral economics, has been appointed to serve on the same committee.

An article by Dr. James W. Markham, associate professor, and Dr. Guido H. Stempel, instructor, of the department of journalism, appears in the current issue of "Quill," the magazine published by Sigma Delta Chi, national professional journalistic fraternity. The article deals with a survey made of Pennsylvania newspapers on the coverage of the presidential campaign last fall.

Dr. Glenn O. Bressler, professor of poultry husbandry, appeared twice on the program of a poultry clinic at Purdue University this week. He discussed poultry housing and appeared on a panel discussion of poultry environment.

Dr. Grace M. Henderson, dean of the College of Home Economics; Delpha E. Wiesendanger, assistant dean and head of the department of home management and housing; and Dr. Winona L. Morgan, head of the department of child development and family relationships, participated in an administrator's conference on infant development last week in Detroit. The conference was called by the Merrill-Palmer School for university administrators.

Dr. Sidney Siegel, associate professor of psychology, is co-author, with two professors of Stanford University, of a book on "Decision Making: An Experimental Approach," published this month. Dr. Siegel was responsible especially for the experimental work reported, under a grant from the Ford Foundation.

Dr. Snavelly Acting Director Of Ordnance Research Lab

Dr. Benjamin L. Snavelly, on leave from his position as physicist with the U.S. Naval Ordnance Laboratory, Silver Spring, Md., has begun duties as acting director of the Ordnance Research Laboratory and visiting professor of engineering research. He fills the position of Dr. Gilford G. Quarles, who is on a two-year leave of absence as scientific and technical adviser to the commanding general of the Army Ballistic Missile Agency at Redstone Arsenal, Huntsville, Ala.

Dr. Snavelly is a native of Lancaster and received his bachelor of science degree in engineering, mathematics, and physics from Lehigh University and doctor of philosophy degree in physics from Princeton University.

Waynick To Be Honored By Wayne State University

Dr. Arthur H. Waynick, head of the department of electrical engineering and director of the Ionospheric Research Laboratory, will be one of five alumni of Wayne State University, Detroit, Mich., to be honored as "Distinguished Alumnus of 1957" by his alma mater.

The award will be made at a dinner on May 18, in Detroit. Dr. Waynick received his bachelor's and master's degrees in physics from Wayne in 1935 and 1937, respectively, and was an instructor in physics in the academic year 1936-37. He was also an assistant professor there in 1943. He obtained his doctor of science degree from Harvard University in 1943. He came to Penn State in 1945 and was named head of the electrical engineering department in 1951.

Dr. Siegel Given Unusual Honor

Dr. Sidney Siegel, associate professor of psychology, has been named a Fellow of the Center for Advanced Study in the Behavioral Sciences for the 1957-58 academic year. He has been granted a leave of absence to accept the honor.

The Center is an independent, non-profit corporation supported by the Ford Foundation on the campus of Stanford University. Its purpose is to free selected scholars from routine duties so they may spend a year uninterruptedly pursuing their research interests. About 50 fellows are appointed each year. Dr. Siegel is the first to be named from Penn State.

Dr. Siegel's special fields are decision theory, statistical inference, and social psychology. Prior to taking up residence as Fellow at the Center, he will teach at Stanford this summer.

Chapel Activities Listed

Chapel Service on Sunday, April 14 at 10:55 a.m. will feature a special Easter music program by the Chapel Choir, under the direction of Willa C. Taylor, professor of music and music education. Choral works by Handl, Williams, Byrd, and Weelkes will be presented. Dr. Luther Harshbarger will give a short meditation.

* * *

The two faculty seminars, given weekly this semester at 8 p.m. in The Chapel will conclude on Monday, April 15. Rev. Donald McIlvride is presenting the seminar on "The Life and Ministry of Jesus."

Rev. Preston Williams will complete the seminar on "What Present-Day Theologians Are Thinking" with a discussion of Rudolf Bultmann, retired professor of the University of Marburg, Germany, whose writings on Biblical theology have stirred many controversies.

* * *

There will be no UCA coffee hour on Tuesday, April 16.

Dr. Bronk Named As Commencement Speaker

Dr. Detlov W. Bronk, president of the Rockefeller Institute for Medical Research and of the National Academy of Sciences, will deliver the Commencement Address on Saturday, June 8.

A graduate of Swarthmore College, Dr. Bronk studied at the University of Pennsylvania, and received his master of science and doctor of philosophy degrees from the University of Michigan.

Dr. Bronk has served on the faculties of Pennsylvania, Michigan and Swarthmore and held the position of director of the Institute of Neurology and professor of physiology at Cornell Medical College. In 1948 he was elected president of The Johns Hopkins University and served in that capacity until accepting the present position with the Rockefeller Institute for Medical Research in 1953. He has been chairman of the National Research Council, president of the American Academy of Sciences, and has served on the editorial boards of several professional and scientific journals.

Pattee Library Has Labor Publications

The Pattee Library has recently acquired the Labor Relations Services published by the Bureau of National Affairs in Washington, D.C. The loose-leaf current services include *Labor Relations Reporter* 6v; *The Expediter* 1 v.; *Collective Bargaining, Negotiations and Contracts*; 2v; *Labor Policy and Practice* 5v.; and *Union Labor Report* 2v.

Bound volumes of the services are also now complete from the beginning of publication in the various areas.

News bulletins are provided as a part of the service for routing to persons who would like to see them. Those who wish to be placed on a routing list for the *Labor Relations Reporter Summary of Developments*; *What's New in Collective Bargaining*; *Labor Policy and Practice Bulletin to Management*; or *Union Labor Report Weekly Newsletter* should send their names and the name of publication or publications they would like to see regularly to the Reference Librarian, Miss Ailman.

Secretaries Workshop Planned For April 26, 27

The annual workshop sponsored by the Pennsylvania State Association of Educational Secretaries and the University will be held on campus Friday and Saturday, April 26 and 27.

Subjects to be covered in the workshop include public relations, telephone techniques, fine arts, English composition, and filing procedures. An enrollment of 100 to 125 is expected.

The workshop is intended for those engaged in secretarial work in the education field of the Pennsylvania school system, including public and private schools, colleges, and universities.

Additional information may be obtained from W. R. Bechdel, Extension Conference Center, Ext. 2517.

No Bulletin Next Week

There will be no *Faculty Bulletin* next week, April 19, due to the Easter vacation. The next issue will appear on April 26, notices for which should reach the editor by Monday, April 22, at 5 p.m.

Book On General McClellan Authored by Dr. Hassler

Dr. Warren W. Hassler, Jr., instructor in history, is author of a book titled "General George B. McClellan: Shield of the Union," published last week by the Louisiana State University press. The book has been selected as the Civil War Book Club's book-of-the-month for March.

The objective study by Dr. Hassler of McClellan, a controversial and misunderstood major figure of the Civil War, is based on much new material and all of the important primary source material. It elevates the general to a respectably high position as a military figure.

Debate With British Set For April 15

The annual international debate between the British Universities team and Penn State will be held at 7:30 p.m. in Schwab Auditorium on Monday, April 15 on the subject "Resolved: That the United States should discontinue direct economic aid to foreign countries."

The public is invited and an open forum, in which the audience will participate, will be held at the conclusion of the debate.

Dr. Robert T. Oliver, head of the department of speech, will be chairman of the debate.

HUB Food Service Schedule Announced

The schedule of food service in the Hetzel Union Building Terrace Room and Lion's Den for the Easter vacation period has been set as follows:

A special Easter candlelight dinner will be held in the Terrace Room Monday evening, April 15, from 5 to 6:45 p.m.

The Lion's Den will be closed from 1:15 p.m., Wednesday, April 17 to noon, Wednesday, April 24.

The Terrace Room will be closed from 1:15 p.m., Wednesday, April 17 to 11:30 a.m., Wednesday, April 24.

The building itself will be open during this period all day except on Easter Sunday.

Barnes Named To Succeed Dr. Erfft

Carl R. Barnes, executive accountant, has succeeded Dr. Kenneth R. Erfft, as controller of the University. Dr. Erfft has assumed a similar post at Rutgers University.

Barnes' appointment was effective April 3 and in the position he will supervise the division of accounting and be in charge of all financial and budgetary matters.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, April 26

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. Geoffrey D. Nicholls, fellow in applied science and technology, Massachusetts Institute of Technology, on "Fluid Immiscibility in Wet Basic Magmas."

University observatories open for observations of Jupiter and the comet Arend-Roland, 7:45 to 10 p.m.

Meeting, faculty of the College of Agriculture, 4:10 p.m., 109 Armsby Building.

Annual meeting, Allegheny Branch, American Society for Engineering Education.

Players production of "Jim Dandy," 8 p.m., Center Stage.

Opening sessions of the Educational Secretaries Workshop, 9 a.m., Extension Conference Center.

Saturday, April 27

Varsity baseball, versus Georgetown University, doubleheader, 1:30 p.m., Beaver Field.

Varsity track, versus Ohio State, 1:30 p.m., Beaver Field.

Varsity tennis, versus Colgate, 1:30 p.m., Beaver Field.

Players production of "Jim Dandy," 8 p.m., Center Stage.

Sunday, April 28

Concert by the Penn State Glee Club, 3 p.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. The Rev. Samuel D. Proctor, president of Virginia Union University, Richmond, Virginia.

Monday, April 29

Meeting, faculty of College of Physical Education and Athletics, 7 p.m., 241 Recreation Building.

Spring Week program begins with parade at 6:15 p.m. Coronation of Miss Penn State by Miss Pennsylvania, 8 p.m., Rec Hall.

Tuesday, April 30

Economics seminar, 12 noon, dining room "C", Hetzel Union Building. Dr. Vaclav Mares, associate professor of economics, on "Soviet Foreign Aid and Its Implications for Our Foreign Aid Program."

Wednesday, May 1

Forestry convocation, 11 a.m., 121 Sparks. Paul R. Beattie, assistant manager, technical department, Wood Preserving Div., Koppers Co., Orrville, Ohio, on "Career Opportunities in the Field of Wood Preservation."

Thursday, May 2

Meeting of the University Senate, 4:10 p.m., assembly room of the HUB.

Pi Gamma Mu Lecture, 7:30 p.m., Room 217, Willard Hall. Dr. Ervin Hexner, International Monetary Fund, on "European Common Market."

Friday, May 3

Mineral Industries colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. George F. Deasy, professor of geography, on "Some New Maps of the Coal Mining Industry of Western Pennsylvania."

Noon prayer service, The Chapel, 12:45 p.m. Registration of projects for the Central Pennsylvania Science Fair, 10 a.m. to 10 p.m., Whitmore Lab.

Stavely, Perez Move Up In Engineering College

Earl B. Stavely, assistant dean of the College of Engineering and Architecture, will become associate dean of the College on July 1 and Lawrence Perez, professor of civil engineering will become assistant dean.

Stavely has been on the faculty since 1916 and assistant dean since 1948. Perez joined the staff in 1945. Last July he was named acting assistant dean while Stavely served as acting dean prior to the appointment of Dr. Merritt A. Williamson as dean.

Automation Program To Be Explained

Small plant operators and engineers of Pennsylvania will meet May 3 on campus for a program on automation. The program will include a tour of the new automation laboratory and an explanation of the University's automation program to aid small industries of the State.

Chester Linsky, assistant professor of industrial engineering, heads the automation program, which will include the third annual Seminar on Automation June 9 to 14.

Dr. Hexner To Address Pi Gamma Mu Society

Dr. Ervin Hexner, head of the legal department of the International Monetary Fund and former professor of political science and economics at the University of North Carolina, will discuss the effects of the recently concluded agreements concerning the "European Common Market," on Thursday, May 2, at 7:30 p.m., in Room 217, Willard Hall.

The lecture is sponsored by Pi Gamma Mu, national Social Science Honor Society, and by the Economics Dept.

Senate Meets Thursday

The University Senate will meet on Thursday, May 2, at 4:10 p.m. in the Assembly room of the Hetzel Union Building.

Gemmell Receives Fulbright Grant

Dr. James Gemmell, professor of education, has been granted a one-year leave of absence to accept a Fulbright grant as lecturer at the Helsinki School of Economics and the Swedish School of Economics, in Helsingfors, Finland.

The grant was announced by the State Department in Washington as one of 400 to be given for lecturing or research abroad in the next academic year. Dr. Gemmell will leave in September.

Mobile X-Ray Unit Now On Campus

The facilities of the mobile x-ray unit which came to campus Wednesday will remain until noon Saturday, April 27. Although the unit is brought to the campus primarily for senior students, the service is available to all persons. The unit is operated by the Bureau of Tuberculosis Control, Pennsylvania Department of Health. It will be in operation from 2 to 6 p.m. and 9 a.m. to 1 p.m.

Frederick To Handle Copyright Applications

Melvin E. Frederick, patent counsel for the University, will in the future handle all applications for copyrights of books, motion pictures, or periodicals. These matters were formerly discharged by the department of public information. Mr. Frederick may be reached at Extension 2303.

St. Clair Moved To New Post

Allen C. St. Clair, director of purchases, has been named assistant to the vice-president for business administration. He will continue to act as director of purchases also.

St. Clair will assist Ossian R. MacKenzie, recently appointed vice-president for business administration. He has been at Penn State since 1950 as director of purchases and in 1952-53 was acting director of housing.

Central Library

Research and Evaluation Improves Counseling Aids

Dr. Robert G. Bernreuter, director of the Division of Counseling, confers with Dr. Martin Zeigler, who heads the research and evaluation department of the Division, regarding a new research project to aid the Division in improving counseling for all students.



IT is of considerable interest that the department of research and evaluation of the Division of Counseling finds it important to do research to evaluate its own program.

This continual "soul searching" of the department, under Dr. Martin Zeigler, is designed to effect continual improvements in the information the department gives to counselors, faculty members, and any others interested in the welfare of the individual student.

When, for example, the University found it desirable to set certain standards in English and mathematics for determining which entering students should take remedial courses, Zeigler and his staff helped to develop tests and evaluations on which these standards were predicated.

"While we have considerable faith in national standards or norms," Zeigler points out, "we may be able to establish even more reliable norms for Penn State students. We are now attempting to develop an 'omnibus' test which will measure aptitude, as well as English and mathematics abilities. National tests are available in these three areas but they leave something to be desired in the time involved and also in how they apply to our counseling program."

All entering students this year will fill out personality inventory and vocational interest blanks, supply other information, and subsequently take English, reading, mathematics and general aptitude tests. None of these is any criterion for admission but all are used in counseling, which is done sometime before the new school year opens.

Zeigler and his staff evaluate this information and the tests. Their evaluations are based on certain standards which have been shown to be normal for college age men and women. The evaluations can be used to reflect the probable success of a student in the field he has chosen and whether it is a field which is likely to interest him.

"One of our research jobs over the years has been to determine the validity of the tests and of our counseling," Zeigler says. "That means a follow-up of the students in the collegiate work and perhaps after they leave the University."

"We made a preliminary study on students who took the counseling program last summer and of those who didn't," Zeigler explains. "Below grades at mid-semester were used to indicate the success of the students who participated and those who did not. We also studied the counselor's evaluation of the student's compatibility for the area of study selected."

The results showed a significant reduction in the number of below grades for those who did participate as against those who did not.

Since some aspects of the counseling program depend on "predictions," especially with regard to the students probable success, Zeigler and his staff have already made a number of research studies which tend to show what factors must be considered in making predictions. Also these studies were made to develop "formulas" for predictions.

One such study, reported in January of this year, was designed to help in predicting a probable grade point average for students in various fifths of their high school classes registered in science and non-science areas of study. Bases for the prediction were the scores made by the students on verbal and mathematics Scholastic Aptitude Tests. The results provided a set of charts by which the student's grade point average may be predicted within a half a point for approximately two-thirds of the students and within one grade point for most of the remaining third. Studies like this will be continued.

"Predictions of probable success in the University are helpful not only to the counselor and the student," Zeigler explains, "but also to the administrator

—department head, dean, or other University officials."

Policy matters such as the admission of students rely on studies which indicate the probability of a student graduating as shown by his high school rank and various test results. The accuracy of these predictions, Zeigler emphasizes, is never 100 per cent. But if, for example, the University can say, based on the various factors considered, that this student "has one chance in ten of graduating," then he may fall into a group which the University would not wish to admit.

"As we acquire more data on Penn State students," Zeigler points out, "we may be able to pinpoint rather well which students can be expected to complete their undergraduate work successfully."

"At the present time, our admissions are based primarily on the student's standing in his graduating class, which has been shown to be a relatively good indicator. In the future, however, we may find even better criteria."

The testing program last summer indicated that about 140 students lacked sufficient background or ability in mathematics to schedule Math 41 in the fall. It was suggested that either they should consider changing to a curriculum which did not require Math 41 or that they should take a remedial course in the summer months.

"Of these 140," Zeigler points out, "about 30 took the remedial course and about 35 elected to review on their own over the summer months. The others changed to curriculums which do not require the Math 41 sequence."

"A preliminary study of these cases indicates a significant advantage for those who took the formal remedial course."

"This year, with the approval of the Senate, the mathematics department instituted a non-credit course for the

(Continued on page four)

Items of Interest

Dr. Paul H. Schweitzer, professor of engineering research, has been issued two Austrian research patents on a piston for combustion engines and on a crank mechanism for combustion engines.

* * *

Dr. Roy C. Buck, associate professor, of rural sociology, addressed a meeting of the Westmoreland-Fayette Historical Society recently on "Broadening the Interest Base of the County Historical Society."

* * *

Several members of the staff of the College of Chemistry and Physics presented papers at the sixth annual meeting of the Pennsylvania Association of College Chemistry Teachers at Wilson College, Chambersburg. They included Dr. Mary L. Willard, professor of chemistry, John R. Hayes and John M. Schempf, associate professors, and William H. Powers, director of arts and science extension.

* * *

Raymond H. Brown, assistant professor of music, was guest singer recently with The Tudor Singers, directed by Ifor Jones, at Muhlenberg College, Allentown.

* * *

Dr. William M. Lepley, director of the psychological laboratory, served as a session chairman and Dr. Lester P. Guest, professor of psychology, participated in a meeting of presidents of state psychological associations at meetings of the Eastern Psychological Association in New York, recently.

* * *

Dr. Leon Kneebone, associate professor of botany, addressed a meeting of representatives of the mushroom industry recently at Kennett Square.

* * *

Dr. Jessie R. Bernard, professor of sociology, is author of a textbook on "Social Problems at Midcentury," published this week by Dryden Press. The work analyzes contemporary social problems and aims to prepare students to understand the world they live in.

* * *

Dr. Lois B. Hyslop, associate professor of Romance languages, and her husband, Francis E. Hyslop, Jr., associate professor of history of art and architecture are co-authors of *Baudelaire: A Self-portrait*, recently published by the Oxford University Press.

* * *

A new book co-authored by Dr. William H. Martin, associate professor of economics, has been released by the Macmillan Company. Dr. Emanuel T. Weiler, chairman of the department of economics at Purdue University, is the other author of the textbook titled, "The American Economic System."

Philip A. Klein, instructor in economics, attended the recent annual Conference of the National Consumer Finance Association at the University of Denver.

* * *

Dr. W. C. Fernelius, head of the department of chemistry, now on leave at Oxford University, England, has lectured on coordination compounds and the chemical polonium at Oxford, the University of Sheffield, University of Reading, University of Nottingham, and a number of other colleges.

* * *

Dr. Franklin B. Krauss, professor of Latin and head of the department of Romance languages, is participating today and tomorrow in the 50th Annual Anniversary Meeting of the Classical Association of the Atlantic States, at Columbia University. As a past-secretary and past-president, he will attend a luncheon given in honor of former officers. He will conclude the meeting with an address on "The C.A.A.S Looks to the Future."

* * *

Dr. Jessie R. Bernard, professor of sociology, is one of the chief contributors to a book "Tensions and Conflict" recently published by the United Nations Educational, Scientific and Cultural Organization.

* * *

Two members of the faculty of the College of The Liberal Arts are participating in the Tenth University of Kentucky Foreign Language Conference today and tomorrow. John A. Huzzard, assistant professor of English composition, will speak on Hawthorne's "The Marble Faun" in the Italian section, and Nora E. Wittman, assistant professor of German, will speak on "German in the Elementary Grades" in the section on Teaching of Languages in the Elementary School.

* * *

Dr. Douglas N. Jackson, assistant professor of psychology, is co-author, with Samuel Messick, Princeton University, of two articles appearing in a recent issue of the Journal of Abnormal and Sociology. The articles describe correlates of response to attitude scales. A third experiment by Dr. Jackson, and collaborators, appears in the same issue.

* * *

Dr. E. Willard Miller, head of the department of geography, is co-author, with his associates, of a new book titled "Global Geography."

Medical College Admission Test Scheduled May 17

The next Medical College Admission Test will be held on campus Saturday, May 11 at 8:45 a.m. to 1 p.m. Applications, accompanied by the \$10 examination fee, must arrive at Educational Testing Service, P.O. Box 592, Princeton, N.J. no later than April 27. Bulletins of information, with application blanks, are available at Room 117, Buckhout Lab.

Report from the Registrar

WITHDRAWALS (Campus)

- 3 Barnes, Barbara Dale, MusEd, Mar. 20
- 8 Belz, David Jerome, Agro, April 1
- Gr Cantor, Arnold Bruce, Econ, Mar. 22
- 1 Bernstein, George B., PM, Mar. 22
- 2 Fatzinger, Don Burt, For, Mar. 29
- 2 Hill, Robert W., DIR, Mar. 28
- Gr Hsu, Joseph Jen-Yuan, Phys, Mar. 13
- Gr Jacobs, Daniel Andrew, April 1
- 6 Kovacs, Barbara A., A&L, Mar. 22
- 3 Machles, Arnold, DIR, Mar. 14
- 2 Ralston, Herbert Kent, Hort, Mar. 29
- 8 Rogers, Ernest Grant, BA, April 1
- 6 Schlegel, Robert L., EE, Mar. 30
- 6 Shultz, Leslie Ann, HE, Mar. 22
- 2 Sutterlin, Ronald Fred, Agr, Mar. 30
- 2 Weidler, Glenn M., Mar. 22
- 6 Weller, Richard G., PM, Mar. 27
- 3 Wooster, John Ira, Aero, Mar. 29
- 4 Bartholomew, Charles R., PM, April 3
- 1 Blimmel, John, R., Jr., BA, April 5
- 2 Ewing, Malcolm H., CE, April 2
- 1 Hastings, Ronald Eugene, ED, April 5
- 1 Shawler, Evelyn, C., A&L, Mar. 29
- 5 Shulgren, Thomas N., WU, April 5
- 3 Spangenberg, Barry K., EE, April 3
- 6 Waltemyer, Earl R., BA&T, Mar. 26
- 7 Welder, Jr., Herbert R., MnPr, April 2
- 4 Donnelly, Barbara J., DIR, Apr. 11
- 3 Fiorucci, Richard Donald, DIR, Apr. 8
- 7 Francis Karl, G&M, Apr. 9
- 4 Harr, Eleanor F., MusEd, Apr. 1
- 4 James, Thomas Julian, CE, Apr. 11
- 6 Jazwinski, Andrew H., GG, Mar. 8
- Sp McEwan, Donald Peter, Apr. 10
- 2 Newman, Neil, For, Apr. 17
- Gr Sparrow, Gene Winningham, Phys, April 10
- 4 Taft, Robert L., PhEd, Mar. 6
- 2 Teilhet, Darwin Louis, Aero, Apr. 1
- 2 Ziegler, William F., DOC, Apr. 8

WITHDRAWALS (University Centers)

Bachelor Degree Program

- 2 Reed, Eva A., A&L, Feb. 7
- 4 Bernstein, Saul Harry, BA, Mar. 27
- 2 Bodnar, John A., EE, April 5
- 1 Klemens, Anthony Lewis, CE, Apr. 8
- 2 Mingola, Leonard, EE, Apr. 3
- 2 Renwick, Charles Melvin, ME, Apr. 4
- 2 Warfel, Ronald, DIR, Apr. 5

Associate Degree Program

- 1 Cook, John Franklin, ET, Mar. 25

CHANGE OF NAMES

- Wilcox, Janet Marie from Weyandt, Jane Marie
- Phelan, Jean McStea from McStea, Kathryn Jean
- Beltz, Judith F. from Friedman, Judith Brown, Francis Richards from Richards, Francis Jane
- Brown, Jacqueline Bell, from Jones, Jacqueline Bell
- Doutt, Alma Steiger from Steiger, Alma Mae O'haren, Virginia Ann from Kobylinski, Virginia Ann
- Valdes, Mary Dide from Hanningan, Mary Madaline
- Wallace, Phyllis Ann from Folk, Phyllis Ann

Advance Registration For Summer Session May 1-15

On-campus undergraduate, graduate, and full-time special students planning to attend any one of the 1957 Summer Sessions may obtain advance approval of their proposed programs of study between May 1 and May 15.

The student will report to his faculty adviser and fill out an official registration form for each session he plans to attend. The forms are available from the head of a department or at the office of the dean. University employees will use the pink colored form.

Complete registration information has been made available through the offices of deans and the Summer Sessions office in Room 102-A, Burrowes Building.

Research—

(Continued from page three)

summer program. This will give us additional information."

Studies related to superior students are contemplated as the University is better prepared to work with them. For example, it would be desirable to know why a significantly large number of students whose tests indicate they should do superior work fail to even graduate. Adequate data of this kind are not yet available.

Well emphasized in the early stages of the counseling program has been the evaluation of the students interests and personality traits as they relate to the vocational field he has chosen. Many studies in the past have indicated what these interests and traits should be for college men and women but even in this area more studies are needed. The work of all the counselors is being continuously evaluated to be certain that they are giving consistently sound advice. This is part of the Division's "soul-searching" program.

The department's service to other departments on campus is constantly expanding. In the future, it is hoped, Zeigler and his staff may be in a position to aid individual faculty members, if they wish the help, in evaluating their own test programs.

The department also has test scoring facilities which it makes available to individual instructors. Regular IBM answer sheets are provided and Zeigler and his staff will assist any instructor in setting up his test so these facilities may be used. Already a number of departments are making use of this service.

For the moment, however, there is the task of setting up testing programs at many points in the State for the coming freshman class, and then evaluating the results of these tests so counselors will have the information they need. With about 5000 students to be tested, under the new policy requiring all students to take the test, it is obviously a big job.

Spring Week Program Begins Monday, April 29

The Penn State students' Spring Week program, with a Disneyland theme, begins Monday, April 29 with a parade at 6:15 p.m. and ends on Friday, May 3 with the Senior Ball, featuring the orchestra of Tommy Tucker.

Of particular interest to faculty during the week are the Carnival, on Tuesday, April 30 from 6:30 p.m. to 11 p.m. and the All-Service show at Rec Hall on Thursday, May 2, at 8 p.m., with the Naval Pensacola Glee Club, the Showboat Jamboree of the Second Army, and the awarding of trophies. Jan Murray, television personality, will m.c. the show.

Other events include the coronation of Miss Penn State on Monday, and the Madhatters and He-Man contests on Wednesday.

Cochran To Address Sigma Xi Initiates

W. G. Cochran, professor of biostatistics at The Johns Hopkins University and editor of the Statistical Association, will present the banquet address to the initiates of the Society of Sigma Xi on May 8, at 8 p.m., in 119 Osmond Lab.

A graduate of Cambridge University, Cochran also received master of arts degrees from Cambridge and the University of Glasgow. He was statistician at Rothamsted, England, Experimental Station before becoming professor of mathematical statistics at Iowa State College in 1939. He became associate director of the Institute of Statistics at North Carolina State College in 1946 and assumed his present position in 1949.

Cochran was the president of the Institution of Mathematical Statistics in 1946, and is a fellow in the Royal Statistical Society. He is the author of two books on statistics.

Westinghouse Lectures On Nuclear Science Listed

The sequence of Westinghouse Lectures on the AEC-Nuclear Science and Engineering program has been announced for May. The sequence includes five lecturers, all with Commercial Atomic Power Activities, Westinghouse Electric Corp., Pittsburgh:

May 4 — A. R. Jones, supervisor of application engineering, on "A Review of Power Reactors."

May 11 — D. A. Campbell, on "Research and Testing Reactors."

May 18 — M. A. Schultz, manager, Westinghouse testing reactor project, on "Principles of Reactor Control."

May 25 — Dr. Shephard Bartnoff, advisory scientist, nuclear design section, reactor engineering department, on "Heterogeneous Reactor Plants."

June 1 — Joel Weisman, component engineering group, Pennsylvania Advanced Reactor Project, on "Liquid Fuel Reactors."

All lectures will be held from 8 a.m. to 12 noon. The lecture by Mr. Jones is in 105 Walker Lab; all others are in 117 Osmond.

Stuhldreher to Address Class In Public Relations

Harry A. Stuhldreher, assistant to the vice-president of United States Steel Corporation will speak to the class in Public Relations in Industry on Thursday, May 2, at 11 a.m. in Room 121, Sparks Building.

A former Notre Dame football star, Stuhldreher joined the U.S. Steel Corp. in 1950 after a career of coaching and administration of athletics at Villanova and the University of Wisconsin.

He serves as a member of the U.S. Olympic Committee, trustee of Kiski preparatory school, director of Junior Achievement of Pittsburgh, and several other positions in youth work. He is past president and honorary member of the American Football Coaches Association.

Research Grant Applications Due

Applications for grants-in-aid for research from the Administrative Committee on Research are to be filed no later than May 10 in order for the grants to be available by July 1, according to Dr. M. A. Farrell, vice-president for research.

Applications should be filed with the dean of the College, where forms are now available.

The intent of the University is that the fund be used primarily to promote fundamental research and creative studies, since support for applied research is more readily available from other sources. Grants are made for one year, and individual sums allocated are determined after all requests and the overall picture of the needs have been considered.

The grants may be used for purposes specifically relevant to the particular investigations for which the grants are made, but not for general purposes such as attending meetings of learned or professional societies or for increasing departmental research equipment.

Dr. Park Appointed Dean At Geneseo

Dr. Lawrence Park, associate professor of elementary education, will become dean of the State University Teachers College at Geneseo, effective June 1.

Dr. Park came to the University in 1950, after being associated with New York University and the Bureau for Intercultural Education.

Jupiter Observations May Be Made Tonight

Observations of Jupiter and possibly Comet Arend-Roland may be made by the public this evening and tomorrow evening at the University observatories, weather permitting, between 7:45 and 10 p.m. Members of Alpha Nu Astronomical Society will operate the telescopes and answer questions.

Reading Festival Held Here Thursday, Friday

The ninth annual Pennsylvania Inter-collegiate Reading Festival, sponsored by the department of speech, will be held Thursday and Friday, May 2 and 3.

Students from the main campus, several of the Penn State centers, and other colleges in the State will participate by reading selections of prose narrative, poetry and drama. Local chairmen are Mrs. Harriett Nesbitt and Dr. W. W. Hamilton, assistant professors of speech.

Sessions will be held both afternoon and evening, with the Thursday afternoon session restricted because of space limitations. All other sessions will be held in the Mineral Sciences Auditorium and are open to the public.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, May 3

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. George F. Deasy, professor of geography, on "Some New Maps of the Coal Mining Industry of Western Pennsylvania."

Saturday, May 4

Joint Physics-Low Temperature seminar, 12 noon, 117 Osmond Lab. Julian Eisenstein, associate professor of physics, on "Methods of Aligning Nuclei."

Open House, College of Chemistry and Physics, 1 to 5 p.m. Exhibits in Osmond, Walker, Pond and Frear Laboratories.

Science Fair, 9 a.m. to 5 p.m., 309 Whitmore Lab. Exhibits of science projects by high school students.

Varsity golf, versus Cornell, University course, 1:30 p.m.

Varsity lacrosse, versus Syracuse, 3:30 p.m.

Westinghouse Lecture Series, 8 a.m. to 12 noon, 105 Walker Lab.; A. R. Jones, Westinghouse Electric Corp., Pittsburgh, on "A Review on Power Reactors."

Sunday, May 5

Chapel service, 10:55 a.m., Schwab Auditorium; The Rev. A. Marshall Laverty, chaplain, Queen's University, Kingston, Ontario.

Showing of three new films from Israel, 7:30 p.m., Hillel Auditorium.

Monday, May 6

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. E. T. MacDonald, director of the Speech and Hearing Clinic, on "Our Obligation to the Speech and Hearing Handicapped."

Meteorology Seminar, 4 p.m., 218 Willard Hall. Capt. William D. Brickmeyer, Air Force graduate student in meteorology, on "Vertical Motion in the Stratosphere."

Wednesday, May 8

Forestry convocation, 11 a.m., 121 Sparks. J. Allan Hauter, president, Allan Products Co., Oradell, N. J., on "Markets for Wood Residues."

Thursday, May 9

Analytical chemistry seminar, 1:10 p.m., 119 Osmond Lab. Dr. Stuart Patton, associate professor of dairy science, on "Application of Gas Chromatography to Flavor Problems."

Meeting of the faculty of the College of the Liberal Arts, 4:10 p.m., 121 Sparks.

Opening night of Players' production of "Teahouse of the August Moon," 8 p.m., Schwab Auditorium. Tickets, \$6.00.

Friday, May 10

Mineral Industries Colloquium, 4:10 p.m., Mineral Sciences Auditorium. Dr. W. H. Taylor, Cavendish Laboratory, Cambridge University, England, on "Recent Structural Studies of Metals and Minerals."

Players' production of "Teahouse of the August Moon," 8 p.m., Schwab Auditorium. Tickets \$1.25. (also Saturday night)

Festival Of Arts Begins May 5

A joint program, called the Festival of the Arts, of the School of the Arts and the departments of architecture, art education, music education, and home arts will be held from May 5 to 19.

The two-week program includes exhibits, plays, recitals, and concerts.

Exhibits of drawings, paintings, crafts, graphics, jewelry, mosaics, sculpture, ceramics, architectural drawings and models will be on display in the Hetzel Union Building. Other exhibits of art will be held in the Temporary Classroom Building and the home art studies of the Home Economics Building.

During the same period, the Players' productions of "Teahouse of the August Moon" (in Schwab Auditorium) and "Jim Dandy" (at Center Stage) will be given.

A lecture-recital of the string quartets of Bela Bartok will be given by the Julliard String Quartet at 3 p.m., May 7, in 121 Sparks.

On May 5, a student recital, piano and vocal, will be held in the assembly room of the HUB at 3 p.m.

The annual concerts of the Glee Club and the University Symphony orchestra will be held on May 12 and May 19, respectively, at 3 p.m. in Schwab Auditorium. The Chapel Choir will give a performance at 8 p.m., May 16, in Schwab Auditorium.

Dr. Roudiez Authors Book On Maurras

Dr. Leon S. Roudiez, associate professor of Romance languages, is author of a book on the French critic and political writer, Charles Maurras.

Titled, "Maurras Jusqu'a l' Action Francaise," the book has been published by Andre Bonne, Paris and describes the formative years of Maurras before he founded the newspaper "l' Action Francaise."

Dr. Roudiez is managing editor of the "French Review" published by the American Association of Teachers of French.

Chem-Physics Open House Tomorrow Afternoon

The annual open house program of the College of Chemistry and Physics will be held tomorrow, May 4, from 1 to 5 p.m. with exhibits and displays in Pond, Osmond, Whitmore, and Walker Laboratories and also in certain rooms in Frear Laboratory.

The program has been planned to attract prospective students and to display facilities of the College to high school students, university students, parents, educators and other guests.

Dr. Erwin W. Mueller, research professor of physics, will present one of the three popularized lectures, giving an explanation of field emission research. Dr. Mary L. Willard, professor of chemistry, will discuss crime detection and general chemistry. A junior student in chemistry, Jerome J. Breiter, will speak on cryogenics.

Faculty members of the college will counsel with high school students and their parents.

Football Ticket Applications Mailed

Applications for 1957 football season tickets were mailed on Wednesday (May 1) to all faculty and staff members.

The closing date for acceptance of applications has been set as Aug. 1, in anticipation of a brisk demand for tickets.

Season tickets for faculty and staff members remain at \$12.00, although tickets for non-staff members have been increased from \$3.50 to \$4.00 for individual games and from \$14.00 to \$15.00 for season tickets.

The four home games include those with Army, William and Mary (on Band Day), Vanderbilt (Homecoming Day) and West Virginia.

The letter accompanying the application blanks points out that "Our policy of allocating tickets on a priority basis to the patrons of the past season will be continued. Any increases in orders will be allocated after all priorities have been honored."

1110 Willard Hall

Ruth I. Kapp



Chester Linsky, in charge of the University's automation program, (circled) is shown at the International Conference on Automation at Paris, France, recently. Conference delegates were impressed by Penn State's various activities.

Linsky Finds Europeans Impressed by Penn State

AS one of the two United States consultants to the International Conference on Automation in Paris, April 8-12, Chester Linsky, assistant professor of industrial engineering in charge of the automation program for small industries of the State, discovered that Penn State is widely recognized in European countries and that scientists and engineers are looking here for help in the future.

"Many of the European delegates to the Conference," says Linsky, "knew about Dr. Eric A. Walker, Robert G. Cochran, director of the research reactor, and Elmer R. Queer, director of engineering research. I am sure they knew of others also.

"They asked many questions about our reactor, and were highly impressed that it is a private venture and that much of it was designed and built by the University. A number of delegates expressed a strong interest in patterned reactor facilities after Penn State's.

"They also pressed for more information about the computer laboratory and about our new automation facilities.

"I was highly flattered that they knew of my work in automation and that they were anxious to learn more about how we are carrying out our program of education and aid to small industry."

The Conference, which brought together educators, economists, engineers, and scientists, was one of a series developed by the European Productivity Agency of the Organization for European Economic Co-operation. Delegates from Germany, Austria, Belgium, Denmark, France, Ireland, Italy, Norway, The Netherlands, the United Kingdom, and Yugoslavia, met to discuss the impact of automation on European econ-

omy and consider future programs for the use of automation techniques in industry. The United States, which is an associate member of EPA, sent Linsky as technology and training consultant.

"European countries seem to lack some of our confidence in automation," Linsky says, "although a number of major industries are as well automated as any in our country.

"I had the opportunity to visit the huge Renault automobile plant, at the invitation of the general manager. I saw operations which rivalled those of many of our major automobile plants. Sweden and Germany have also gone far with automation in major industries.

"The future of automation in small businesses, however, drew a major share of attention at the Conference because it is so new to them. They were very much interested in Penn State's automation programs for small business."

Europeans, Linsky points out, look to the United States for leadership in automation. Faced with increased competition for foreign markets, they are seeking ways to reduce costs. However, there is some hesitancy to go heavily for automation because of social and management problems.

Linsky was subjected to many questions about the educational phases of automation programs. He gave a private showing of slides for an executive group of EPA, showing Penn State's automation program, the automation lab, and automation techniques in industry in this country.

(A one-day meeting of over a hundred representatives of small industries of the State is being held today in the College of Engineering and Architec-

ture. A seminar on automation June 9-14 has already enrolled a large number of plant operators and engineers. Linsky is chairman of these programs.)

"There is no question," Linsky says, "that European countries have the technically trained personnel to automate their production, although they may lack the know-how. They need to solidify their concepts of automation, especially as related to European needs.

"Their aim of free markets, however, requires them to think more deeply of ways to use automation, especially so that small businesses can compete.

"Considering the success of this conference, I feel certain they'll do it. But I have a feeling they may be coming to Penn State for help. Already we have received requests for aid from The Netherlands, Norway, and Italy.

"In fact, they may come to Penn State for help in many phases of our programs. We are apparently better known in Europe than we realize."

Pepinsky Awarded Guggenheim Fellowship

Dr. Raymond Pepinsky, professor of physics, has received a \$4,500 fellowship grant from the John Simon Guggenheim Memorial Foundation for his studies of the crystal design of salts of complex and organic ions.

The fellowships are granted to persons of unusual capacity for scholarly research, demonstrated by the previous publication of contributions to knowledge of high merit, and to persons of unusual proven creative ability in the fine arts.

The grant was one of 344 awarded by the Foundation.

Television May Be Used For More Classes In Fall

Faculty members who would like to present their courses over closed-circuit television during the fall semester, if they have not already arranged to do so, should contact R. V. Watkins, University scheduling officer, or Dr. C. R. Carpenter, director, or Dr. L. P. Greenhill, associate director, of the Instructional Research Program.

An extension of the existing television facilities may make it possible to accommodate additional courses this fall.

Players Present Play By John Patrick

The Penn State Players production of the play "Teahouse of the August Moon," by John Patrick, will open on Thursday, May 9 at 8 p.m. in Schwab Auditorium and continue on Friday and Saturday, May 10 and 11.

The production is directed by Robert Reifsnider, associate professor of theatre arts. Tickets for the Thursday performance are \$.60 and for the other two performances \$1.25.

Items of Interest

Joseph Intorre, in charge of the driver training program, is the newly-elected president of the American Driver and Safety Education Association. He is a former president of the Pennsylvania Association of Safety Education.

★ ★ ★

Dr. R. L. Slobod, head of the department of petroleum and natural gas engineering, discussed the major methods currently being tested to increase the fraction of oil recovered from known reservoir rocks at the meeting of the Eastern District of the Division of Production of the American Petroleum Institute in Pittsburgh yesterday.

★ ★ ★

Edward Sulkowski, instructor in physical education and former boxing coach, has been invited by the U.S. Army to join the instructional staff for a trainers' clinic in Europe, July 8 to 12.

★ ★ ★

Dr. Lester P. Guest, professor of psychology, will participate as retiring president at the meeting of the Pennsylvania Psychological Association May 11 at Wernersburg. Dr. C. R. Carpenter will attend the meeting as a member of the executive committee.

★ ★ ★

Dr. G. W. Brindley, professor of solid state technology, and head of the department of ceramic technology, is speaking today before the Mineral Products Division of the National Bureau of Standards, in Washington, D.C., on the subject of clay minerals.

★ ★ ★

Dr. Warren W. Hassler, Jr., instructor in history, is the author of "The Battle of South Mountain," appearing in a recent issue of the Maryland Historical magazine.

★ ★ ★

Dr. Eugene T. McDonald, director of the Speech and Hearing Clinic, gave two papers at the annual spring lecture series of the District of Columbia Society for Crippled Children in Washington, recently. The papers were titled "Speech Evaluation of Children with Cerebral Palsy" and "The Reaction of Parents to the Child with Cerebral Palsy."

★ ★ ★

Dr. Paul Grun, assistant professor of genetics, gave a paper on "Research in Plant Cytogenetics" at the 50th anniversary celebration of the department of plant breeding at Cornell University recently. Dr. J. E. Wright, associate professor of genetics, served as master of ceremonies at the anniversary banquet.

Dr. Walter H. Walters, head of the department of theatre arts, was recently appointed to a three-year term as book review editor of The Educational Theatre Journal, published by the American Educational Theatre Association.

★ ★ ★

Dr. Orrin Frink, head of the department of mathematics, was recently elected vice-director general of Pi Mu Epsilon, national mathematics honor society.

★ ★ ★

Theodore S. Karhan and James W. Dunlop, associate professors of music education, were judges in the State Band Contest at West Virginia University, Morgantown, W. Va. last week.

★ ★ ★

George S. Zoretich, assistant professor of art, served as one of the jurors of the Fifth Annual Exhibition, Huntington, W. Va., last week. The exhibition was sponsored by the Huntington Galleries and the Tri-State Creative Arts Association.

★ ★ ★

Dr. Albert Christ-Janer, director of the School of the Arts, Edwin W. Zoller, associate professor of art, and George Z. Zoretich, assistant professor of art, have been selected to participate in the Pittsburgh Plan for Art for the current year. Sponsored by the Ford Foundation, the project is designed to increase the borrowing and purchasing of the works of living artists.

★ ★ ★

Cause of the tomato disease called internal browning has been shown to be tobacco mosaic virus by Dr. J. S. Boyle, associate professor of plant pathology after a four-year research program aided by a \$3,400 grant from the Campbell Soup Company. No cure for the malady has yet been found.

★ ★ ★

An illustrated article by Dr. Tien-hsi Cheng, associate professor of zoology, which was first printed in "Science For the Farmer," has been reprinted in the April issue of La Hacienda (Spanish edition), agricultural science magazine for Central and South America.

★ ★ ★

Raymond Brown, assistant professor of music, sang the title role of Mendelssohn's oratorio "Elijah" with the Cumberland Choral Society, Cumberland, Md., last week.

★ ★ ★

John Barth, instructor in English composition, addressed the combined Johns Hopkins University Graduate Seminars in fiction, poetry and criticism recently, concerning the construction of his novel, "The Floating Opera," published last year and currently being translated into Italian for Longanesi and Cia, Milan, Italy.

★ ★ ★

The baccalaureate address titled "The Lord Looketh on the Heart," given by Dr. Milton S. Eisenhower last May has been published in the May, 1957, issue of Pulpit Digest.

Mrs. Rebecca Doerner, secretary for International Student Affairs, attended the convention of the National Association of Foreign Student Advisers on International Educational Exchanges in New Mexico this week.

★ ★ ★

Dr. P. S. Skell, assistant professor of chemistry, lectured at a colloquium at Johns Hopkins University on May 1 on his work concerning "Reactions of Bivalent Carbon Intermediates." This is one of a number of lectures he has presented on this subject. He spoke previously at the Universities of Colorado and Minnesota, Stanford University, and Duke University and at the B. F. Goodrich Research Center. In July, he will attend the International Congress of Chemistry in Paris, France, under a travel grant from the National Science Foundation.

★ ★ ★

Dr. Hans Neuberger, head of the department of meteorology, has been nominated by the American Meteorological Society as its representative in the Division of Earth Sciences of the National Academy of Science-National Research Council for a three-year term.

★ ★ ★

Dr. Malcolm Freiberg, assistant professor of history, presented a paper on "How To Become a Governor: Thomas Hutchinson," at a meeting of the Mississippi Valley Historical Association in Lincoln, Neb., this week.

★ ★ ★

Dr. Ira V. Brown, associate professor of American history, is the author of an article, "The Religion of Joseph Priestley" in the April issue of "Pennsylvania History." The paper was previously read before the Northumberland County Historical Society and at Dickinson College.

Dr. Walker Suggests Common Two Years For Engineers

President Eric A. Walker suggested to participants in the meeting of the Allegheny section of the American Society of Engineering Education last week that "it might be advisable to revise our course structure to offer a common curriculum to all engineering students during the first two years."

The suggestion came in the discussion concerning a growing demand that engineering curriculums contain more and more of the humanities. Dr. Walker emphasized, however, that the suggestion was intended merely to generate "some healthy self-appraisal."

Dr. Walker, in welcoming the delegates to the meeting at the opening session, pointed out that enrollment in engineering colleges and universities in Pennsylvania may reach 32,000 by 1965 and 43,000 in 1975. He said that the present enrollment of engineering students in the State is 17,000, which is 10.7 per cent of the total enrollment compared with a national average of 8.2 per cent.

President's Advisory Committee To Be Formed

President Eric A. Walker will appoint a five-man President's Advisory Committee from among the members of the Senate for "the development and strengthening of informal communications between the office of the President and the faculty of the University," it was announced this week.

The new group will succeed the Faculty Advisory Council and will come into being when the Senate is reorganized for the new year.

The Faculty Advisory Council was organized in March, 1951. It brought its business to a close last Friday.

Zelko Authors Book On Conference Technique

Dr. Harold P. Zelko, professor of public speaking, is the author of a new book, "Successful Conference and Discussion Techniques" which is being published in two editions by McGraw-Hill Book Co. One edition is a college text; the other is intended for the general public and for trade and business use.

The book deals with the techniques of conferences and discussions in business and public meetings.

Dr. Zelko is also author of "How to Become a Successful Speaker," and is co-author, with Dr. Robert T. Oliver, head of the department of speech, and Dallas C. Dickey of a textbook on "Communicative Speech."

Aviation Education Workshop In July

The third annual Aviation Education Workshop, designed to provide teachers and school administrators with opportunities to acquire knowledge, experience, and a fuller understanding of the impact of aviation on modern society, will be held on campus July 1 to 20.

During the three-week program, teachers will observe operations at an airport control tower and weather station, fly in light planes and fast airliners, examine military aircraft, see planes being manufactured and take part in many other activities.

Report from the Registrar

WITHDRAWALS (Campus)

- 2 Erkens, Joseph Anthony, FT, Apr. 10
- 2 Haddock, William John, EE, Apr. 13
- 2 Kendra, William Allen, AeroE, Apr. 15

WITHDRAWALS (Mont Alto)

- 2 Feltman, Lowell Willard, For, Apr. 24
- 2 Teele, Jonathan P., For, Apr. 24

(University Centers)

- Bachelor Degree Program*
- 2 Coyle, Thomas Aquinas, EE, Mar. 28
- 2 Horvat, Barbara Ann, Psy, April 15
- 2 Wade, Leah Virginia, A&L, Apr. 5

Associate Degree Program

- 1 Crain, Donald S., ET, Apr. 11

The following reasons were given for withdrawing: Personal 3, Illness 2 and Scholastic 4.

Integration Plan Cards Distributed This Month

Employees of the University who are members of the State Employees Retirement System will receive preference cards sometime this month on which they will indicate their vote on the proposed plan to integrate the present retirement system with Social Security.

The State-wide vote on the plan will take place May 26, 27, and 28. Employees who do not vote and those who vote negatively on the plan will continue under the present retirement system but will not be affected by Social Security.

Those who vote in favor of the plan this month will vote again sometime later. If the vote on the second ballot obtains a simple majority of those voting, the plan will go into effect.

Research Grants Made

Dr. Wakefield Dort, Jr., assistant professor of geology, and Mortimer H. Hait, Jr., graduate assistant in geology, have received grants from the Geological Society of America to support field research this summer in the northern Rocky Mountains of the United States and Canada. Dr. Dort will attempt to learn the extent of mountain-top carapaces of ice during the maximum glaciation.

* * *

A grant of \$500 has been made by the Monsanto Chemical Co. to Dr. H. C. Fink, associate professor of plant pathology to support his research concerning the fungicidal action of chemical compounds.

Dr. Fink plans to test the effectiveness of anti-metabolites (which inhibit growth processes by stopping protein synthesis) as fungicides.

* * *

The United States Steel Foundation, Inc., has announced a grant of \$6,000 for the two-year period beginning in September to support a graduate fellowship in metallurgy. The grant is part of the Foundation's overall program of aid to colleges and universities totalling \$1.8 million dollars. Dr. Amos Shaler, head of the department of metallurgy, will direct the fellowship program.

* * *

Dr. Lloyd A. Currie, assistant professor of chemistry, has been awarded a one-year grant by the Air Research and Development Command of the U.S. Air Force for research on "The Interactions of Energetic Nuclei with Chemical Systems." The study is aimed at producing new information concerning the effect of nuclear projectiles on chemical systems.

* * *

For the third straight year a grant has been made by the Office of Ordnance Research of the U.S. Army to support a research project by Dr. Norman Davids, professor of engineering mechanics, on the subject of resistance of materials to impact and shock. The title of the project is "A Theoretical Analysis of Scabbing in Materials."

Patent Council To Talk

Gerald D. O'Bryan, patent counsel for the Bureau of Ordnance, Department of the Navy, will lecture to the class in patent fundamentals today at 4 p.m. in Room 102, Main Engineering. He will discuss the government patent policies and procedures.

The lecture is open to the faculty.

William Hintze, patent counsel for AMP, Inc., of Harrisburg, will lecture to the same class on Friday, May 10, and Igor G. Shlopak, attorney for Mine Safety Appliances, Pittsburgh, will speak on Wednesday, May 15 at 11 a.m.

Sutherland To Discuss Australian Project

Dr. A. Bruce Sutherland, professor of English literature, will discuss his Australian novel project before the Graduate English Club, which will meet at 8 p.m., Thursday, May 9, in the Home Economics Living Center. The meeting is open to the public.

Faculty Women To Hold Annual Spring Luncheon

The annual spring luncheon of the Faculty Women's Club will be held on Saturday, May 18 at 12:45 p.m. in the ball room of the Hetzel Union Building.

President Eric A. Walker will be the speaker.

Added Scholarship Aid For Fuel Technology

An intensified program of scholarship aid in the field of fuel technology by a group of industries has been announced. The drive will aim at increasing the number of scholarships now available and developing increased interest in the future opportunities for fuel engineers among high school seniors.

Penn State was singled out by the group as the only university in the country offering a course of this kind.

Represented in the group were the Pittsburgh Consolidated Coal Company, Eastern Gas and Fuel Associates, National Coal Association, Koppers Co., Pittsburgh Coal Company Division, Bituminous Coal Research, American Coal Sales Association, and George H. Deike, Sr., all of whom offer scholarship aid in the field. Mr. Deike is the president of the board of trustees of the University.

Insulating Studies To Be Made For Navy

A grant of \$1,400 has been made by the U.S. Navy Bureau of Ships for a study by E. R. McLaughlin, associate professor of engineering research.

The study will be made to determine the most efficient insulation for steel and aluminum panels for navy destroyers. The study, which will take about two months to perform, involves heat transfer tests on various types and thicknesses of insulating materials and paints used in conjunction with the metals.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, May 10

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. W. H. Taylor, Cavendish Laboratory, London, England, on "Recent Structural Studies of Minerals and Metals."

Players production of "Teahouse of the August Moon," 8 p.m., Schwab Auditorium.

Players show, "Jim Dandy," 8 p.m., Center Stage.

Graduate student-graduate faculty dance, 9 p.m. to midnight, Hetzel Union Building ball room, sponsored by the Graduate Student Association.

Saturday, May 11

May Day program, 3:30 p.m., in front of Old Main.

Westinghouse Lecture Series, 8 a.m. to 12 noon, 117 Osmond. D. A. Campbell, Westinghouse Electric Corp., Pittsburgh, on "Research and Testing Reactors."

Varsity tennis, versus Syracuse, 1:30 p.m.

Concert by Modern Dance group, 8 p.m., White Hall.

Players production of "Teahouse of the August Moon," 8 p.m., Schwab Auditorium.

Players show, "Jim Dandy," 8 p.m., Center Stage.

Sunday, May 12

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Hans Hofmann, assistant professor of systematic theology and psychology, Princeton Theological Seminary, Princeton, N. J.

Concert by the Penn State Glee Club, 3 p.m., Schwab Auditorium.

Tea, as part of Festival of the Arts program, 3 to 5 p.m. in the HUB.

Lecture by Dr. Howard H. Brinton, director emeritus of Pendle Hill, 8 p.m., The Chapel lounge, on "Buddhism and Christianity," sponsored by the department of philosophy and the University Chaplain.

Monday, May 13

Panel discussion on "Retirement: Problems and Opportunities," program of the AAUP, 7:30 p.m., Mineral Sciences Auditorium. Dr. A. F. Davis, moderator.

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Roy Wilk-

Senate In Two Special Meetings

There will be two special meetings of the University Senate, both at 8 p.m. The first will be on Thursday, May 16, in Room 121 Sparks. The second will be on Thursday, May 23, in the Assembly Room of the Hetzel Union Building. Please note the rooms in each case.

inson, legal counsel for the University, on "The Role of the University Attorney."

Tuesday, May 14

Plant Science Club meeting, 7:30 p.m., 111 Tyson Bldg. Dean Ernest B. McCoy, dean of the College of Physical Education and Athletics, on "The Evolution and Present Status of Grants-In-Aid for Athletes."

Joint Physics-Ionosphere Seminar, 4:30 p.m., 117 Osmond Lab. Dr. L. V. Berkner, president, Associated Universities, Inc., on "Radio Astronomy Research in the United States."

Economics seminar, 12 noon, dining room "C," Hetzel Union Building. W. E. Mason, associate professor of economics on "The Concept of a Monetary Standard."

American Chemical Society section meeting, 8 p.m., 119 Osmond. Dr. Thomas P. Carney, vice-president of Eli Lilly and Company, on "Major Problems in Medicinal Chemical Research."

Wednesday, May 15

Forestry convocation, 11 a.m., 121 Sparks. Richard J. Thomas, technical service, National Casein of New Jersey, Riverton, N. J.

Thursday, May 16

Meeting of Graduate School faculty, 4:10 p.m., Room 121, Sparks.

Concert by the Chapel Choir, 8:30 p.m., Schwab Auditorium.

Special meeting of the Senate, 8 p.m., 121 Sparks.

Traffic Survey Planned Next Week

A survey of vehicular and pedestrian traffic on campus will be made next week in an effort to obtain more information to plan future road, sidewalk, and parking facilities.

The survey is under the direction of Calvin G. Reen, professor of civil engineering. It will begin on Monday, May 13 and continue in various aspects through the week. Data collected will supplement parking studies made in previous years as well as those made by aerial survey a month ago.

Vehicular studies will be made on Monday by students and members of the staff of the department of physical plant from 7:30 a.m. to 5 p.m. The data collected in this manner will be supplemented by that taken by automatic counters which have been loaned by the Pennsylvania Department of Highways especially for the survey. These counters will remain on campus throughout the week.

A pedestrian count will be made on Friday, May 17, indicating the volume and direction of travel.

Exhibits, Parade Mark Armed Forces Day

Exhibits and displays and a parade will be highlights in the observance of Armed Forces Day next Thursday, May 16.

The exhibits, prepared by the departments of air science, naval science, and military science and tactics, and by the Pennsylvania Air National Guard, will be on display in the ball room of the Hetzel Union Building, from May 14 to 16.

A parade will be held at 7 p.m. on May 16, with Ossian R. MacKenzie, vice-president for business administration and dean of the College of Business Administration, as marshal. Dean MacKenzie is a major in the Marine Corps Reserve.

Claude H. Decker, Burgess of State College, will serve as chairman of the general program.

Members of the planning committee include Lt. Col. David H. McKinley, USAFR, assistant dean of the College of Business Administration; Lt. Col. Ned E. Ackner, associate professor of military science and tactics; Maj. Charles A. Swain, assistant professor of air science; Woodrow W. Bierly, news assistant in public information; and Capt. Gordon D. Bringham, assistant professor of air science.

Photo Exhibit Displayed In Sackett Building

An exhibition of photographs by late Swiss photographer, Werner Bischof, is now on display in the first floor corridor of Sackett Building.

The display is sponsored by the department of architecture and has been made available through the Smithsonian Institution. The exhibit includes 50 photographs of Japan, in three sections depicting ancient Japan, modern Japan, and the traditional Japanese theatre.

Senate Minutes

Minutes of the Meeting of May 2, 1957

The University Senate met at 4:10 p.m. on Thursday, May 2, 1957 in the Assembly Room of the HUB with President Eric A. Walker presiding. The minutes of the April meeting were approved as printed in the Faculty Bulletin for April 12, 1957. One hundred thirty-two senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: J. W. Dunlop (W. P. Campbell), H. L. Krall (W. O. Gordon), F. R. Matson (Margaret Matson), A. W. Hutchison (J. R. Hayes), B. F. Howell (R. N. Clayton), W. C. Bramble (W. E. White), B. B. Lethbridge (W. M. Hench), D. G. Thevaos (F. L. Whaley), Joseph Marin (J. W. Brenehan), E. R. Queer (W. E. Ranz), A. W. VanderMeer (G. M. Torkelson), D. V. Josephson (F. J. Doan), E. L. Keller (M. E. Campbell), Jeanne Riebel (Janice Chennault), H. S. Brunner (W. F. Hall), E. W. Callenbach (P. H. Margolf), and M. R. Fenske (Dorothy Quiggle).

A letter from Ben Euwema, Dean of the College of the Liberal Arts, stated that during the illness of T. J. Gates, J. S. Bowman will represent the Department of English Composition in the Senate.

A memo from President Walker requesting that the date of the June meeting of the Senate be changed to Tuesday, June 4, at 4:10 p.m. instead of Thursday, June 6 because the executive committee and other committees of the Board of Trustees will be meeting on the sixth. It was moved by Hummel Fishburn that the date of the June meeting be changed as suggested. The motion was seconded and passed.

Letters were received from the undergraduate deans reporting the newly elected senators for the 1957-1959 term. The secretary read the names as follows:

Agriculture

H. H. Chisman H. R. McCulloch
H. A. Kinsloe C. W. Pierce

Business Administration

L. E. Fouraker W. J. Schrader
A. H. Reede R. H. Waters

Chemistry and Physics

E. R. Fitzgerald R. G. Stoner
Joseph Jordan R. W. Taft, Jr.

Education

K. R. Beittel H. M. Davison
H. S. Brown D. G. Thevaos
To fill unexpired terms of L. E. Park and
E. B. van Ormer:
Rose M. Cologne J. F. Friese

Engineering and Architecture

A. D. Brickman R. E. McCord
F. T. Hall, Jr. G. L. Thuermer

Home Economics

Mary Brown Allgood Gilma Olson
Della Avery William Smith

Liberal Arts

J. M. Anderson M. N. McGeary
H. E. Dickson F. R. Matson

Mineral Industries

E. J. Moore Robert Scholten
J. J. Schanz, Jr. T. S. Spicer

Physical Education and Athletics

F. M. Coombs Marie Haldt
E. A. Gross C. M. Speidel

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A" with the following corrections:

On pages 6 and 7 in the Electronics Option and the Power Option in Electrical Engineering insert in both instances between the junior and senior years the statement:

For special graduation requirements in English see page ...

On page 9 E E I change effective date from Fall Semester 1957 to Spring Semester 1958.

On page 18, in the Spring Semester of the Sophomore year in the curriculum in Recreation Education delete E Lit 25, Introduction to Literature, which course has

been dropped, and let stand in the same place "literature elective."

On page 19, also in the curriculum in Recreation Education delete the footnote marked by a number sign.

Mr. Shelley moved the adoption of the report as corrected. The motion was seconded and passed. The report is on file in the office of the secretary.

H. K. Schilling, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report which had been distributed with the agenda as Appendix "B" and moved the adoption of the recommendations in the report. The motion was seconded. The recommendations are as follows:

1. Competence in the use of English shall be a requirement for the baccalaureate degree in all curriculums of the University.
2. Minimum competence in English usage shall be defined as the level of achievement equivalent to that required for passing English Composition 5 with a grade of C or better.
3. A student will be dropped from the University if he has not met this requirement before the beginning of the fifth semester in residence.
4. Only those students shall be admitted to the University as freshmen who are deemed competent to enter English Composition 1, or have high scholastic ability in other respects.
5. The requirements pertaining to admission shall become effective beginning with freshmen admitted for the Spring Semester of 1958; and those pertaining to graduation shall take effect beginning with the freshmen admitted for the Fall Semester of 1957-58. Students shall not be admitted with junior or senior standing unless they meet the requirement stated in paragraph 2.
6. The Senate Committee on Academic Standards shall have the responsibility and authority to enforce these requirements.
7. The Senate shall request the University Administration to implement these policies and regulations.

R. C. Maloney moved that the recommendations be amended by deleting paragraph 3. The motion was seconded. In the discussion it was pointed out that if paragraph 3 were eliminated, it would be possible for a student to go to the eighth semester and still not have a satisfactory record in English. J. S. Bowman objected to both paragraphs 2 and 3, and gave several reasons why the administration of the recommendations would be ineffective. R. G. Bernreuter reported on the number of students who would be dropped from the University if recommendation number 3 were now in effect. After further discussion, the motion to amend the recommendations by deleting paragraph 3 was lost.

E. H. Freund moved that paragraph 4 be amended by adding the word "exceptionally" before the word "high." The motion was seconded and passed. After discussion on who deems the student competent it was moved by L. E. Jackson that the report be laid on the table for further consideration. The motion was seconded and passed. The complete report is on file in the office of the secretary.

REPORTS OF SPECIAL COMMITTEES

The Special Committee on the Organization and Operation of the University Senate distributed a minority report and a majority report at this meeting for action at a special meeting of the Senate on Thursday, May 16 at 8 p.m. in Room 121 Sparks Building. These reports are on file in the office of the secretary.

UNFINISHED BUSINESS

Mr. Schilling moved that the report of the SENATE COMMITTEE ON EDUCATIONAL POLICY concerning the General Education Requirement of Competence in Quantitative Thinking be removed from the table. The motion was seconded and lost.

Ruth Ayres, Chairman of the Subcommittee on THE SUPERIOR STUDENT, referred to the action of the Senate at the last meeting when the recommendation to amend Rule O-2 of the Regulations for Undergraduate Students was referred to their committee, and moved that the Senate invite departments to consider whether they give any courses in which they would like to experiment with the following program, and after consideration make a list of such courses and forward them for summary by the Superior Student subcommittee to Room 116 Home Economics Building.

Proposal for Consideration

When an instructor feels that he has so organized a course that he can definitely determine the quality of the performance of his

students, he may exempt a student from the final examination on sufficient evidence that the student has achieved an 85 or equivalent grade level and the instructor believes that the final is not necessary for the student.

The motion was seconded and passed.

NEW BUSINESS

Any consideration of a meeting place for the Senate during 1957-1958 was postponed until after the special meeting on May 16 relative to the reorganization of the Senate.

Mr. Schilling moved that the Senate call a special meeting for May 23 at 8 p.m. for serious consideration of the "General Education Requirement of Competence in Quantitative Thinking" and the report of the subcommittee on "Competence in the Use of English." The motion was seconded and passed. The meeting will be held in the Assembly Room of the HUB.

R. B. Saylor, Chairman of the SENATE COMMITTEE ON CALENDAR, stated that a questionnaire had been sent to all Colleges with reference to calendar policy and asked that the deans return their replies as soon as possible in order that the Calendar Committee could make a report to the Senate.

The next regular meeting of the Senate will be on Tuesday, June 4 at 4:10 p.m. in the Assembly Room of the HUB. The agenda will be distributed on May 23. Two special meetings will be held: on May 16, at 8:00 p.m. in Room 121 Sparks Building, and on May 23 at 8:00 p.m. in the Assembly Room of the HUB.

The meeting adjourned at 5:10 p.m.

C. O. Williams
Secretary

AAUP To Discuss Retirement Problems

A panel discussion on "Retirement: Problems and Opportunities," will be the feature of the program of the chapter meeting of the American Association of University Professors on Monday, May 13, at 7:30 p.m. in the Mineral Sciences Auditorium.

The discussion will center around the many personal and family adjustments an individual must make upon retirement. Dr. A. F. Davis, professor of physical education, will serve as moderator.

Six discussion leaders will present various aspects of retirement, including:

Dr. Joseph H. Britton, associate professor of child development and family relationships, on "Psychological Aspects."

Dr. W. G. Mather, professor and head of the department of sociology, on "Sociological Aspects."

Dr. Howard A. Cutler, head of the department of economics, on "Financial Aspects."

Miss Belle Hubbard, retired instructor in home economics extension, on "The Retired Woman's Viewpoint."

Dr. Roy D. Anthony, professor emeritus of pomology, on "The Retired Man's Viewpoint."

C. E. Spencer, district manager of the Social Security office, on "Social Security Aspects."

Student-Faculty Dance Tonight In HUB

All graduate students and members of the graduate faculty have been invited to attend the semi-formal dance sponsored by the Graduate Student Association this evening in the ballroom of the Hetzel Union Building from 9 p.m. to midnight.

No admission charge will be made and free refreshments will be served.

Items of Interest

Dr. Fred R. Robertson, professor of agricultural economics extension, addressed the Northeast region world affairs conference of the Foreign Policy Association last week. He talked on the use of FPA educational materials in several Pennsylvania counties in his extension work.

* * *

Dr. Edward C. Thaden, assistant professor of history is representing the University as chairman of the Russian Area Program of the Conference on Undergraduate Area Studies at St. Paul, Minn., today.

* * *

Dr. David W. Russell, professor of education now on leave to serve as consultant at the Iolani School, Hawaii, was guest of honor recently at a banquet honoring the admission of Japan to the United Nations. During a three-day conference of the Department of Public Instruction of the Territory of Hawaii, he presented two papers and participated in a panel discussion.

* * *

Dr. Eugene T. McDonald, director of the Speech and Hearing Clinic, and Dr. Asa J. Berlin, assistant professor of speech education, participated in the program of the annual convention of the American Association for Cleft Palate Rehabilitation in Cleveland last weekend. Dr. McDonald, past president of the organization and member of the executive and research committees, presented a paper on the relationship between age of palatal surgery and adequacy of speech. Dr. Berlin attended as a member of the nomenclature committee.

* * *

Dr. Rose Cologne, professor of education, represented the University recently in a meeting at the University of Michigan to map out research studies for adult education in the United States.

* * *

Paul S. Beaver, supervisor of management training, will speak on "Effective Sales Communications" next week at an industrial sales conference sponsored by the Pennsylvania Electric Association.

* * *

Janette M. Burns, instructor in English at the Altoona Center, was a judge in the State finals of the Pennsylvania Music and Forensic League in Bethlehem.

* * *

Dr. Hugh S. Brown, associate professor of higher education, is the author of an article on "Pennsylvania Colleges—Man's World Or Woman's?" in the spring issue of "College and University."

Dr. S. C. Sun, associate professor of mineral preparation, and Dr. Eugene Ackerman, associate professor of physics, are co-authors, along with Dr. L. Y. Tu, of a technical paper on "Mineral Flotation with Ultrasonically Emulsified Collecting Agents," which has been translated into French and published in the French magazine, "Mines."

* * *

Dr. Miriam E. Lowenberg, professor of foods and nutrition, participated in the Sixth Conference of Directors of Graduate Programs in Public Health Nutrition in Tennessee, last week. She gave two talks on food preferences of children and a lecture-demonstration on the techniques of feeding infants and children. Dr. Lowenberg also spoke at a conference on child feeding at the University of Arkansas.

* * *

Gilbert L. Crossley, assistant professor of electrical engineering, addressed five radio groups recently in his position as director of the American Radio Relay League. The groups included those in the Delaware Valley, Dunkirk, N. Y., Philadelphia, Lancaster, and Johnstown.

* * *

Dr. S. C. Sun, associate professor of mineral preparation and David R. Mitchell, professor of mining engineering and chairman of the division of mineral engineering, presented a paper on "Hydrocarbons in Coal Flotation" at the annual meeting of the American Institute of Mining Engineers recently.

* * *

Chester Linsky, assistant professor of industrial engineering, has the feature article in the current issue of "Flow" magazine, a publication in the field of materials handling. The article, profusely illustrated, deals with methods by which small manufacturers can develop automated processes in their plants through progressive mechanization. It is entitled "Automation With Off-The-Shelf Components."

* * *

Ralph H. Wherry, head of the department of commerce, will be the speaker at the annual banquet of the Pennsylvania Life Underwriters Association in Erie on Thursday, May 16. He will speak on "Life Insurance Values."

* * *

Dr. Philip S. Klein, professor of American history, will address the Founders Day banquet of Phi Alpha Theta, history honorary society, tonight at the University of Pittsburgh. He will speak on "James Buchanan and Slavery."

* * *

Dr. George F. Wislicenus, director of the Garfield Thomas Water Tunnel, attended a meeting of a subcommittee of the National Advisory Committee for Aeronautics in Cleveland recently. Dr. Wislicenus has been a member of this subcommittee since 1948.

Dr. Douglas N. Jackson, assistant professor of psychology, met last week with members of the research department of The Menninger Foundation, Topeka, Kan., to advise on aspects of their mental health research program. The Foundation is organized for research, education and service in the mental health fields.

* * *

Dr. H. B. Charnbury, head of the department of mineral preparation, has been appointed an associate editor of "Mechanization—The Magazine of Modern Coal."

ACS Section Meeting Features Dr. Carney

Dr. Thomas P. Carney, vice-president of Eli Lilly and Company, will address the meeting of the Central Pennsylvania Section of the American Chemical Society on Tuesday, May 14 at 8 p.m. in Room 119, Osmond Laboratory.

A Penn State graduate in 1941, Dr. Carney is vice-president for research, development and control and member of the board of directors of Eli Lilly, producer of many drugs and medicines. His talk will be on "Major Problems In Medicinal Chemical Research." Dr. Carney is a fellow of the New York Academy of Sciences; member of the board of trustees of the Nutrition Foundation; member of the advisory board of Marian College; member of the Chemical Corps Advisory Council; member of the industry subcommittee of the National Cancer Chemotherapy Center; and member of several technical societies.

Dr. Carney will discuss important progress with medicinals involved in treatments of mental disease, atherosclerosis, and cancer.

Method Found For Virus Determinations

A revolutionary method for determining the presence of viruses in plants and the concentration of the virus has been developed in the departments of bacteriology and plant pathology.

The method was revealed in a paper presented by Robert C. Dalzell, graduate student in bacteriology, before the 57th general meeting of the Society of American Bacteriologists. Dr. John S. Boyle, associate professor of plant pathology, and Dr. James J. Reid, professor of bacteriology, collaborated on the paper with Dalzell.

The test procedure, which makes use of a two per cent suspension of red corpuscles, requires only 45 minutes as compared to several days with methods now in use. It is also said to be more sensitive than existing tests and to offer the possibility of separating different types of virus.

Early detection of plant viruses could have great economic importance. Virus diseases now cause millions of dollars damage annually in tomatoes, potatoes, sugar beets, cherries, apples, and other crops.

Colbourn Receives Grant To Aid History Research

Dr. H. Trevor Colbourn, assistant professor of history, has been awarded a \$5,000 American Studies Fellowship by the Library Company of Philadelphia.

The grant, made to stimulate research in American studies, will enable Dr. Colbourn to use the historical resources of the Company and other libraries in Philadelphia to continue his research leading to a book on "The Historical Origins of American Independence."

Dr. Colbourn believes that a careful study of the figures involved in the American Revolution will lead to a greater understanding of the origin and context of their thinking. The Library Company has many original collections of early Revolutionary leaders.

Forestry To Mark 50 Years of Education

A celebration to mark the 50th year of professional forestry education in Pennsylvania will be held in Schwab Auditorium on Monday, May 27, from 2-5 p.m.

It was in 1907 that a four-year undergraduate program in forestry was established at Penn State. Dr. Hugh P. Baker was named professor of forestry at that time. Prior to that time, undergraduate courses in forestry had been offered by Dr. William Buckhout, professor of botany, and in 1903 the Pennsylvania State Forest Academy at Mont Alto offered a two-year program to train forest wardens. The Academy was merged with the department of forestry at Penn State in 1929.

The program marking the semi-centennial will include a welcome by President Eric A. Walker and talks by Maurice K. Goddard, secretary of the Pennsylvania Department of Forestry and Waters; Dr. William G. Edwards, professor emeritus of lumbering; and several alumni.

More than 500 alumni and guests are expected to take part in the celebration. The program is open to the faculty.

Dr. Brinton To Talk

Dr. Howard H. Brinton, director emeritus of Pendle Hill, graduate school of the Friends Society, will give a public lecture on "Buddhism and Christianity" on Sunday, May 12, at 8 p.m. in the lounge of the Helen Eakin Eisenhower Chapel. The lecture is sponsored by the department of philosophy and the University Chaplain.

Wilkinson To Address Faculty Luncheon Club

Roy Wilkinson, legal counsel for the University, will speak at the Faculty Luncheon Club meeting on Monday, May 13, at 12 noon in dining room "A" of the Hetzel Union Building. He will speak on "The Role of the University Attorney."

Penn State Elected To Business Association

Penn State has been elected to full membership in the American Association of Collegiate Schools of Business. The election was made at the 39th annual meeting of the Association.

Carnegie Institute of Technology and the Massachusetts Institute of Technology were elected along with Penn State, raising the total membership to 88 colleges and universities.

Rutschky Receives Darbaker Prize

Dr. C. W. Rutschky, associate professor of entomology, was the recent recipient of the Darbaker Memorial Prize at the Pennsylvania Academy of Science meetings, at Waynesboro, Pa.

The award was based on a paper by Dr. Rutschky entitled "Respiration of the Eggs of the Milkweed Bug." He has made many contributions to the field of insect physiology and embryology.

Col. Riva To Attend Air War College

Col. Daniel F. Riva, professor of air science, has been selected by the Air Force to attend a ten-month course at the Air War College, Maxwell Air Force Base, Alabama, beginning in August.

He will be succeeded as professor of air science, by Col. Orin H. Rigley, Jr., now commander of the First Aero Medical Transport Group, Brooks Air Force Base, Texas.

The Air War College prepares officers for command and key staff positions in the Air Force.

Col. Riva, who came to the University in 1954, was administrative secretary to Charles E. Wilson, Secretary of Defense.

Ceramic Technology Aided By Orton Grant

A grant of \$5,000 has been made by the Orton Foundation to the department of ceramic technology to expand X-ray diffraction equipment. The expansion will facilitate many research programs as well as instruction.

The Edward Orton Jr. Ceramic Foundation was formed, according to the terms of the will of General Edward Orton Jr., to aid ceramic research and development.

Graduate Faculty Meets Thursday

The faculty of the Graduate School will meet Thursday, May 16, at 4:10 p.m. in Room 121, Sparks Building.

Modern Dance In Concert

A concert of modern dance, by the Concert Group, will be held tomorrow at 8 p.m. in White Hall. Admission is free, but tickets may be obtained at the White Hall office.

Research Initiated In Watershed Management

A long-range program of watershed management research in the oak-hickory forests of Pennsylvania is now underway in the School of Forestry, with the cooperation of the Pennsylvania Department of Forests and Waters and the Northeastern Forest Experiment Station of the U. S. Forest Service.

Leaders of the research include David P. Worley, assistant professor, and William R. Byrnes and William E. Sopper, both instructors in Forestry. Others represent the U. S. Forest Service, and the Department of Forests and Waters.

The project was initiated to determine the effects of common forest types and forestry practices on stream flow; to determine effect of reforestation on abandoned agricultural land in watershed management; and to study various basic forest soil-water relationships as they affect watershed management.

Thaden Awarded Fulbright Grant

Dr. Edward C. Thaden, assistant professor of history has been awarded a Fulbright scholarship for research in Finland for the coming academic year.

The grant will make possible a continuation of studies Dr. Thaden has been making leading to a book titled, "Conservative Nationalism in Tzarist Russia, 1800-1917."

Finland was once part of Russia and its libraries are second only to those of Soviet Russia in this area. Dr. Thaden toured the Soviet Union last summer and hopes to be able to visit Leningrad and other Russian cities again in 1958.

European Flights Available With UCA

There are still a few spaces available on the charter flights to Europe of the University Christian Association this summer. They are available at minimum cost to faculty and staff members of the University. The dates of the flights are: June 20, New York to London; July 4, New York to London; and July 31, Amsterdam to New York.

Those interested should contact the University Christian Association office in the Chapel, Ext. 541. These flights are chartered with regularly scheduled air lines with tourist class service provided.

Scholarships Granted For Driver Training

The Allstate Foundation has made a grant to the University of \$2500 to provide scholarships for high school teachers in driver training programs.

The scholarships will enable the teachers to enroll for the Driver Training and Safety Education program offered during the main Summer Session.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Saturday, May 18

Westinghouse Lecture by M. A. Schultz, manager of the Westinghouse Reactor Project, 8 a.m. to 12 noon, 117 Osmond Lab.
Varsity tennis, versus West Virginia, 1:30 p.m.
Varsity golf, versus Colgate, 1:30 p.m.
Faculty Women's Club annual spring luncheon, 12:45 p.m., HUB ball room. President Eric A. Walker, guest speaker.
Lecture by Jean Dalrymple, director of City Center Theatre Company, N.Y., on "Collaboration in the Arts," 8 p.m., assembly room of the Hetzel Union Building.
Meeting of the Central Pennsylvania Chapter of the American Association of the Teachers of German, beginning at 11 a.m.

Sunday, May 19

Concert by University Symphony Orchestra, 3 p.m., Schwab Auditorium. Theodore Karhan, conducting.

Monday, May 20

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Herman C. Kranzer, assistant professor of education, and Fred M. Coombs, professor of physical education, in an illustrated lecture on "Penn State's Outdoor Education Projects."
Meeting of the faculty of the College of Home Economics, 4:10 p.m., Room 14, Home Economics. President Eric A. Walker, the speaker.

Tuesday, May 21

Initiation banquet, Phi Kappa Phi, 6:15 p.m., Hetzel Union Building. Dr. H. K. Schilling, dean of the Graduate School, the speaker.
Graduate School Lecture Series, 8 p.m., Room 10, Sparks. Dr. Max A. Lauffer, dean of the Division of The Natural Sciences, University of Pittsburgh, on "Horizons in Virus Research," co-sponsored by the College of Agriculture.
Vesper services, The Chapel, 4:30 p.m., Rev. Preston Williams, assistant to the Chaplain.
Honor Society Council Scholarship Day exercises, awarding of Evan Pugh Medals, 4 p.m., 105 Mechanical Engineering.
Economics Seminar, 12 noon to 1:30 p.m., dining room "A", Hetzel Union Building. Dr. Edward S. Herman, assistant professor of economics, on "The Branch and Merger Movement in Banking in Pennsylvania."

Wednesday, May 22

Morning worship, 8:15 a.m., The Chapel, Rev. Donald McIlvride in charge.

Thursday, May 23

Special meeting of the University Senate, 8 p.m., Assembly Room of the Hetzel Union Building.

Friday, May 24

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. Russell Valdock, Stahle Isotopes Division, Oak Ridge National Laboratory, on "Chemical Analysis By Means of The Mass Spectrometer."
Varsity lacrosse, 3:30 p.m., Beaver Field (originally scheduled for Saturday.)

Trustees Approve Two Administrative Posts

Two administrative appointments were approved by the Executive Committee of the Board of Trustees last weekend.

Dr. C. R. Carpenter, professor and head of the department of psychology, has been named director of academic research and services. Dr. Howard A. Cutler, professor and head of the department of economics, has been appointed co-ordinator of the general education program of the University. Both appointments are effective July 1.

The two positions have been created as part of the office of the vice-president for academic affairs, and both will be filled on a half-time basis.

The director of academic research and services will co-ordinate all phases of the television and audio-visual development program, including instruction, research, and broadcasting; initiate and conduct research relating to the University's instructional program; collect and make available to faculty members information to improve utilization of teaching resources, assist in construction of academic tests, and stimulate experimentation in instruction; and to assist in the integration of the instructional program with the University's long-range plans.

The co-ordinator of the general education program will be concerned with the establishment of a program of general education in the arts, the biological sciences, the humanities, the social sciences, and the physical sciences, which will eventually be made available to all students in the University regardless of their major field of specialization.

Concert Blue Band Performs May 26

The final concert of the season by the Penn State Concert Blue Band will be given on Sunday, May 26, at 3 p.m. in front of the Pattee Library. In case of rain, the concert will be presented in Schwab Auditorium.

James W. Dunlop, associate professor of music education, is the director.

Dr. Lauffer To Conclude Graduate School Series

Dr. Max A. Lauffer, dean of the division of the natural sciences, University of Pittsburgh, will speak on "Horizons in Virus Research" as the final program of the current Graduate School Lecture Series on Tuesday, May 21, at 8 p.m. in Room 10 Sparks.

The Lecture is co-sponsored by the College of Agriculture.

One of the foremost scientists in the field of virology, Dr. Lauffer was the Priestley Lecturer on campus in 1946. He obtained both bachelor and master of science degrees from Penn State and his doctor of philosophy degree from the University of Minnesota. After seven years at the Rockefeller Institute of Medical Research, Princeton University, Dr. Lauffer joined the staff of the University of Pittsburgh in 1944.

Dr. Lauffer was visiting professor at the University of Bern, Switzerland, and a member of the teaching staff of the Marine Biology Laboratory, Woods Hole, Mass., in 1953.

Dr. Lancaster Named Westinghouse Professor

Dr. Otis E. Lancaster, director of statistics and the economics staff of the Post Office Department, Washington, D.C., has assumed new duties as the George Westinghouse professor of engineering education.

The professorship was established by the Westinghouse Educational Foundation to determine ways in which engineering education may be improved. The post has been vacant since the resignation last year of Dr. Warren W. Wilson, who became dean of engineering at Pratt Institute, Brooklyn, N.Y.

Dr. Lancaster, a graduate of Central Missouri State Teachers College with advanced degrees in mathematics from the University of Missouri and Harvard University, served as head of the Applied Mathematics branch of the Bureau of Aeronautics of the Navy Department from 1946 to 1954 and in 1954 was assistant director of the research division.

White Water Canoeing Thrills Staff Members

Dr. Thomas Smyth, assistant professor of entomology, is an enthusiastic and expert canoeist who likes the water rough and finds it so in many Pennsylvania streams.



TO an increasing number of faculty and staff members, the more vigorous outdoor activities have a special appeal, and the newest—white water canoeing—is taking hold with considerable impetus.

Dr. Thomas Smyth, assistant professor of entomology, is the leading advocate locally of this adventurous sport which has its greatest reward for those with a love of the outdoors, desire for new experiences of the more rugged type, and willingness to take physical chances.

White water canoeing is an extremely descriptive term for the sport of guiding a light canoe through streams and rivers which, because of boulders, currents, dams, and general obstructions are apparently angry enough to show their teeth to the unwary. To "paddle" a canoe in such conditions for 25 or 30 miles requires a skill in canoeing, reasonably good physical condition, and a cool head. With the water racing downstream at great speed, avoiding the pitfalls in many of the streams in Pennsylvania calls for all those attributes.

Dr. Smyth developed his skills and judgments of stream conditions in New England, while he was teaching at Tufts College five or six years ago. Like others, he started in a course for beginners conducted by the Appalachian Mountain Club, although he had been canoeing in rather quiet waters most of his life.

When he came to Penn State two years ago he thought that he would have have to give up his hobby, but was pleasantly surprised to learn that there were a number of streams and rivers to challenge his skill. Since then he has interested others in the sport and led members of the canoeing group of the Penn State Outing Club on junkets to nearby spots. Two faculty couples—the R. V. Bouchers and the D. P. Duvalls, both with prior experience—have made trips with him.

Within close driving distance of State College, the Little Juniata below Spruce Creek, Penn's Creek, Pine Creek, and

Red Moshannon, offer good white water canoeing for those of only moderate skill. The upper end of the Loyalsock offers a good challenge for the more advanced, as does the Lehigh. The season, limited in Pennsylvania, extends from early spring to about June 1. After that the streams settle down for the calm summer run and seldom show enough white water for the adventurous spirits of the confirmed canoeist.

There is danger involved. Deaths among those who failed to use good judgment, are not uncommon. For this reason, the Outing Club has developed, with Smyth's help, a training program which starts with a relatively simple canoeing exercise in a placid stream where water jugs are floated to develop a course through which the initiate is expected to maneuver.

"This is something like a 'slalom' course in skiing," Smyth says, "and teaches a person some of the techniques of avoiding rocks in the water."

With advanced learning comes the desire to try more difficult streams. Streams have been rated according to their hazards, from 1 to 5, the latter being the most difficult. The Loyalsock is rated from 3 to 5, conditions varying from time to time. Smyth himself has developed such skill as to attempt those in the upper categories.

"Much white water canoeing," he says, "is done in pairs, with someone in the bow and stern, for best control. But even two experienced canoeists can get into trouble when they come to something entirely unexpected."

The fact is that on almost every trip the unexpected is to be expected. That makes for more thrilling experiences, at the same time calling for coolness under fire.

A day's outing may involve four or five hours of actual canoeing, which naturally requires endurance. But Smyth points out, in the Appalachian Mountain Club there were men and women in their seventies who did white water canoeing.

In Pennsylvania there are several

clubs in the Philadelphia and Pittsburgh areas which make treks to good water streams for the experience. They often travel hundreds of miles just to reach their starting point. Here in Central Pennsylvania good streams are relatively near.

"These canoes have a very shallow draft and in the spring the streams are very high, so there is no problem of getting grounded," Smyth points out. "For the adventurous, they are as exciting as those rivers more highly publicized and nearly as dangerous."

And there's always the beautiful scenery to view, because many streams are off the beaten path where the motorist would miss them. There are some scenes you can't find without some trouble.

Staff Changes Approved By Board Of Trustees

The executive committee of the Board of Trustees approved changes in status for eight faculty members at its meeting last week-end, including:

Dr. Carl A. Bauer, associate professor of physics, to associate professor of astronomy.

Yoshiharu Okala, research associate of physics, to assistant professor of physics.

Clarence S. Bryner, instructor in agronomy, to associate professor of agronomy extension.

Louise W. Hamilton, assistant professor of nutrition and health extension, to associate professor of nutrition and chairman of the nutrition and health extension section.

Charles A. Koester, associate county agricultural agent, to Potter County agricultural agent.

The following assistant extension home economists were appointed associate extension home economists: Jane I. Ellenberger, Clearfield County; Darcie L. Rhoda, Indiana County; Urania B. Linn, Venango County.

Items of Interest

Dr. Harold J. O'Brien, associate professor of speech, addressed the eighth annual Customer Relations Conference of the Pennsylvania Electric Association at Hershey recently on "A Creative Impulse in Customer Relations."

★ ★ ★
Dr. Hugh H. Chapman, Jr., assistant professor of Romance languages, is co-author of the "Bibliography of Comparative Literature," published in the 1957 Yearbook of Comparative and General Literature.

★ ★ ★
Dr. June M. Collins, associate professor of clothing and textiles, presented a paper recently on "Symbolism in Dress" at a session of the Central States branch of the American Anthropological Association at the University of Wisconsin.

★ ★ ★
Seven members of the faculty of the division of earth sciences recently presented papers at the American Geophysical Union which met recently in Washington, D.C. They were: Dr. O. F. Tuttle, chairman of the division; Dr. Joseph V. Smith, assistant professor of mineralogy; Peter J. Wyllie, research assistant in geochemistry; Dr. Charles P. Thornton, assistant professor of petrography; Dr. Hans Panofsky, professor of meteorology; Mr. Alfred K. Blackador, associate professor of meteorology; and two graduate students, Robert F. Fudali and George R. Rapp, Jr.

★ ★ ★
Dr. Bruce M. Siegenthaler, associate professor of clinical speech, presented a paper on "An Evaluation of a Hearing Test for Children" at the International Conference on Audiology this week at St. Louis, Mo. Next week he will attend the Pennsylvania Academy of Ophthalmology and Otolaryngology at Bedford Springs to speak on "Team Management of a Child with Hearing Loss."

★ ★ ★
Dr. Asa J. Berlin, assistant professor of speech education, was elected a member of the executive council of the American Association for Cleft Palate Rehabilitation at the annual convention in Cleveland, Ohio, recently.

★ ★ ★
Gilbert S. Crossley, assistant professor of electrical engineering, addressed the banquet meeting of the Rochester Amateur Radio Association at Rochester, N.Y., recently.

★ ★ ★
Dr. Gordon R. Smith, instructor in English composition, has been awarded a three-month fellowship at the Folger Shakespeare Library, Washington, D.C., for work on the bibliography of Shakespeare books and articles from 1936 to 1956 which he has been compiling.

Jean Dalrymple To Talk In Arts Festival Feature

Miss Jean Dalrymple, director of the City Center Theatre Company, New York, N.Y., will present a lecture on "Collaboration in the Arts," Saturday, May 18 at 8:00 p.m. in the assembly room of the Hetzel Union Building as the concluding feature of the Festival of the Arts program.

The lecture is open to the general public.

Miss Dalrymple has been associated with the City Center since its inception in 1943, acting as director of public relations and as a member of the board of directors for many years.

As director of the Company, she has produced 16 plays, starring such artists as Jose Ferrer, Helen Hayes, Jessica Tandy and Hume Cronyn, and Franchot Tone, Orson Welles, Marcel Marceau, Tallulah Bankhead, Rosita Diaz and Gig Young, Charlton Heston, and the Brattle Shakespeare Players.

Miss Dalrymple has been in all branches of show business since she was 17 years old. After writing and producing several comedy sketches in the vaudeville circuit she then turned to Broadway to work with John Golden. Eventually she opened her own publicity and management office, representing such artists as Jose Iturbi, Lily Pons, Leopold Stokowski, Nathan Milstein, and many others.

Recently Miss Dalrymple was named coordinator for the Performing Arts of the American Section of the Brussels World's Fair.

Press Conference Begins Today

The annual program of the Press Conference, sponsored by the Pennsylvania Newspaper Publishers Association, the Pennsylvania Society of Newspaper Editors, and the School of Journalism begins today and continues tomorrow.

The theme of the conference this year is "Today's Youth and Tomorrow's Newspaper." The program which will spotlight the young reader will take place Saturday afternoon, with Dr. Robert G. Bernreuter, director of the Division of Counseling, as moderator of a panel discussion. The panel will include I. W. Cole, director of the School of Journalism.

V. M. Newton, Jr., managing editor of the Tampa, Fla., Tribune, will speak on "Freedom of Information" at the banquet this evening.

Dr. Walker's Talk To Graduate School Available

Copies of the bulletin of the Graduate School which contains the address given by President Eric A. Walker on Mar. 21 to the faculty of the Graduate School are available to the faculty at the office of the Dean of the Graduate School. The address pointed up some of the problems which confront the Graduate School in the future.

Phi Kappa Phi To Hold Initiation, Banquet

Dr. Harold K. Schilling, dean of the Graduate School, will address the members and initiates of Phi Kappa Phi, national honorary society, at its spring banquet and initiation on Tuesday, May 21, in the Hetzel Union Building. The banquet begins at 6:15 p.m. with initiation scheduled for 5:45 p.m.

Dr. M. S. Osborne, head of the department of architecture, and Dr. H. R. Albrecht, director of Agricultural and Home Economics Extension and vice-dean of the College of Agriculture, will be initiated to membership in the society, along with 106 undergraduate and graduate students.

All members of the Society are welcome to attend the banquet, according to Harold V. Walton, associate professor of agricultural engineering, who is president. Faculty members who have not been contacted may obtain tickets from Glenn A. Marburger, 102 Sparks.

Eight Faculty Members Elected To Honorary

Eight faculty members were recently elected to membership in Pi Gamma Mu, national social science honor society.

They include: Dr. Ruth W. Ayers, professor of clothing and textiles; Dr. Jean O. Britton, instructor in psychology; Helen Canaday, instructor in home-community relationships, Dr. Ruth R. Honey, professor of family economics and housing.

Merwin W. Humphrey, professor of forestry; Dr. Will E. Mason, associate professor of economics; Dr. Francena L. Nolan, assistant professor of rural sociology; and Delpha E. Wiesendanger, assistant dean of the College of Home Economics and professor of home management and housing.

Dr. E. Willard Miller, professor of geography, as president of the Society, presented the banquet address on "Resources and World Peace."

Superintendents, Principals Conference Held July 21-25

The 35th annual Superintendents and Principals Conference will be held on campus from July 21 to 25 with the theme "The Best Education For All Pennsylvanians."

Dr. Charles H. Boehm, superintendent of Public Instruction in Pennsylvania, will deliver the banquet address.

Oliver Australia Bound For State Department

Dr. Robert T. Oliver, head of the department of speech, will leave May 31 for a three-month appointment in Australia under the Leaders-Specialists program of the U.S. Department of State.

He will work with school authorities in the five states on the development of courses in speech in secondary schools and colleges.

Dr. Harshbarger Named Professor Of Religion

Dr. Luther H. Harshbarger, University chaplain and co-ordinator of religious affairs, has been named professor of religion in the College of the Liberal Arts for the coming academic year.

The appointment was approved by the Board of Trustees last weekend. Dr. Harshbarger will serve in the post half-time and continue to devote half of his time to his present duties.

Dr. Harshbarger came to Penn State in 1949 as executive secretary of the Penn State Christian Association, was named chaplain in 1951, and since 1954 has served as chaplain and co-ordinator of religious affairs.

German Teachers Meet Saturday

The spring meeting of the Central Pennsylvania Chapter of the American Association of Teachers of German will be held Saturday, May 18, with registration and business meeting at 10 a.m. in Room 229 Sparks Building. The formal program will begin at 11 a.m. with a demonstration of teaching German to an elementary class to be given by Miss Nora Wittman, assistant professor of German, in the College Heights School.

A demonstration and explanation of the teaching German over the closed-circuit television system will be given by Dr. Philip A. Shelley, head of the department of German, in Room 19, Sparks, in the afternoon.

Werner F. Striedieck, associate professor of German, is president of the Chapter.

Plant Metabolism Studied Under AEC Contract

A contract with the United States Atomic Energy Commission for studies in plant metabolism by Dr. Andrew A. Benson, associate professor of agricultural and biological chemistry, has been renewed for a second year.

The investigation is being made to determine the paths through which phosphorus is carried to leaves of a plant from its roots. He has already identified the compound which does the transporting as "phosphoryl chlorine," which is characterized by extreme mobility. He is now attempting to find how this substance is formed in plants and its role in plant metabolism.

Scholarship Honors Mary Jane Wyland

A scholarship has been established by Scrolls, senior women's hat society, in honor of Dr. Mary Jane Wyland, professor emerita of education and a trustee of the University.

The scholarship will provide \$100 during the spring semester to a second-semester woman student, the amount to be applied for payment of fees for the following fall semester.

Dr. Wyland was instrumental in founding Scrolls, in 1953, and has served the group as adviser.

Report from the Registrar

WITHDRAWALS (Campus)

- 2 McGinnis, Jerome G., Journ, May 4
- 4 Marchese, Nancy Lee, SecEd, May 7
- 4 Rosen, Allan J., EE, May 6
- 6 Schwenk, Carl Gerhart, G&M, May 8
- 4 Smith, Dale Southworth, BA, May 6
- 2 Spangler, Clyde Mitchell, DIR, May 7
- 4 Bailey, Frank George, DIR, April 26
- 7 Chiappelli, Doandl Francis, PhEd, Apr. 29
- 2 Criss, Robert Franklin, DOC, Apr. 17
- 4 Fleisher, William, DIR, Apr. 15
- 2 Hadley, Larry Gerald, DOC, Apr. 30
- 2 Haller, Stanley C., PM, Apr. 26
- 4 Kemper, Donna E. Jones, Journ, Apr. 30
- 2 McClelland, Norman T., For, Apr. 26
- 2 McFarlane, Gary B., Metal, May 1
- 6 Moore, James L., DIR, Apr. 26
- 4 Muller, Richard, Jr., DIR, Apr. 30
- 2 Norton, Thomas R., A.Eng., Apr. 16
- 2 Sahakian, Hendrik D., ME, Apr. 30
- 2 Tkac, Edward M., IA, Apr. 26

WITHDRAWALS (University Centers)

Associate Degree Work

- 2 Hall, Charles Alexander, 2YSec, May 6
- 2 Hymes, Gerald B., DDT, May 13
- 2 Meloy, Walter D., DDT, Mar. 21
- 2 Moore, Richard M., DT, April 25

Bachelor Degree Program

- 2 Blackwell, William James, EE, April 30
- 2 Newcomb, Francis J., PNG, May 2
- 2 Patchin, Carl Notley, DIR, May 2
- 2 McKee, Robert Leach, A&L, May 2

CHANGE OF NAMES

- Artevech, John Gerald from Artuevich, John Gerald
- Kohuth, Jean Bodman, from Bodman, Jean Willoughby
- Mastroianni, Nancy Ann from Brebner, Nancy Ann

Schanz To Make Study For State Planning Board

Dr. John J. Schanz, assistant professor of mineral economics, will direct an investigation for the Pennsylvania State Planning Board to provide estimates of the supplies of coal, oil, and gas which will be available to the Commonwealth in the future and the expected cost of these fuels. John R. Hoffman, research assistant, will also participate in the study.

The estimates will be used in suggesting when and to what extent other energy sources, such as atomic power, may become important in the State's economy.

The project will include a critical evaluation of known data concerning Pennsylvania's fossil energy resources and those in bordering states.

Altoona Center In Telecasts

The Penn State Altoona Center is one of eight colleges and junior colleges in Central Pennsylvania participating in a series of television programs over Station WFBG, Altoona.

The Center was featured in a telecast this week and will be responsible for subsequent shows every Tuesday morning from 9 to 9:30 a.m. through the month of June. Robert E. Eiche, administrative head of the Center, is directing the shows.

Symphony Concert Sunday, May 19

The annual spring concert of the University Symphony Orchestra, directed by Theodore Karhan, associate professor of music and music education, will be held on Sunday, May 19, at 3 p.m. in Schwab Auditorium.

The program will include:

Four Centuries Suite, by Eric Coates. Concerto No. 21 in C Major, K. 467 for piano and orchestra, by Mozart.

Bachianas Brasileiras No. 5, by Heitor Villa-Lobos.

Apogee, A Lunar Landscape, by Noah Klauss.

Peter and the Wolf, by Serge Prokofiev, with Dr. Luther Harshbarger as narrator.

Rapsodie Norvegienne, by Eduard Lalo.

Fall Enrollment To See Record Number of Coeds

About 600 additional women students will be enrolled on campus this fall, made possible by new residence hall facilities on campus. The total coed enrollment will reach 3700, a new record. Men's enrollment will remain around 10,000.

In all, 4600 freshmen will be admitted to the University, according to Dr. C. O. Williams, dean of admissions and registrar, and of these 1300 will enroll at the centers. About 600 of those admitted to the centers will enroll for the two-year associate degree program.

Freshman quotas in two colleges have already been filled, although it is customary for a number of those already admitted to withdraw in June and July.

Honor Society Council Presents Pugh Medals

The Honor Society Council, in keeping with a long standing practice, will again bestow Evan Pugh Medals on junior and senior students who have been designated Evan Pugh Scholars for 1957 by the Senate Committee on Scholarships and Awards, President Eric A. Walker, and the Senate.

The ceremony will be held in Room 105 Mechanical Engineering at 4 p.m., Tuesday, May 21 as part of the Scholarship Day exercises of the Council.

Dr. Franklin B. Krauss, head of the department of Romance languages, and president of the council, will address the award winners and make the awards. All past and present members of the University staff, as well as students and the general public are welcomed to the ceremonies.

One-Act Plays Given By Class In German

The public is invited to see two one-act plays, given by the class in German 12, on Friday, May 17, at 8 p.m. in the Lutheran Student Association Center on West College Ave. at Atherton St. Refreshments will be served. The plays have the title "Missverstaendnisse."

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, May 24

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. Russell Valdock, Oak Ridge National Laboratory, on "Chemical Analysis By Means of the Mass Spectrometer."

Varsity lacrosse, 3:30 p.m., Beaver Field, versus Pennsylvania.

Saturday, May 25

PIAA high school championships in track and field, tennis, and golf.

Varsity track, versus Manhattan, 1:30 p.m.; baseball, doubleheader, versus Pittsburgh, 1:30 p.m.; tennis, versus Pittsburgh, 1:30 p.m.; golf, versus Pittsburgh, 1:30 p.m.

Westinghouse Lecture series, 8 a.m. to 12 noon, 117 Osmond Lab. Dr. Shephard Bartnoff, reactor engineering department of Westinghouse Electric Corp., on "Heterogeneous Reactor Plants."

Spring semester classes end, 11:50 a.m. Examinations begin 1:10 p.m.

Western Penna. Philosophical Society meeting, 11 a.m. and 2 p.m., 203, the HUB.

Sunday, May 26

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther Harshbarger, University Chaplain, the speaker.

Concert by the Penn State Concert Blue Band, James Dunlop conducting, 3 p.m. The Mall (Schwab Auditorium in case of rain).

Thursday, May 30

Vesper services, 4:30 p.m., The Chapel. Mr. Brown Higginbotham, in charge.

Memorial Day recess, offices closed.

Dr. Hartman To Head Mining Department

Dr. Howard L. Hartman, associate professor and acting head of the department of mining engineering at the Colorado School of Mines, will become professor and head of the department of mining on July 1.

He will succeed Arnold W. Asman, who resigned to become product manager of mining equipment sales of the Robins Conveyor Division of Hewitt-Robins, Inc.

Dr. Hartman received both his bachelor's and master's degrees from Penn State, in 1944 and 1947 respectively and was instructor in mining engineering in 1947-48. After experience in Arizona, he obtained his doctor of philosophy degree from the University of Minnesota. He remained at Minnesota until 1954 when he was appointed to the staff of the Colorado School of Mines.

Gov. Leader To Address Forestry Dinner Monday

The 50th anniversary of professional forestry education in the State will be observed next Monday and Tuesday, May 27 and 28.

Highlight of the two-day program will be a dinner on Monday evening in the Hetzel Union Building, with Governor George M. Leader as the principal speaker. President Eric A. Walker, Richard E. McArdle, chief of the U.S. Forest Service, and Maurice K. Goddard, State Secretary of Forests and Waters will also participate in the program.

Hundreds of alumni are expected to attend the two-day program, which marks the golden anniversary of the beginning of a four-year curriculum in forestry at Penn State.

A memorial to forestry students killed in World War II will be dedicated on Tuesday, May 28, at 9:30 a.m. The Pershing Rifles will form an honor guard for the dedication ceremony, which will take place at the site of the memorial, near the flower gardens along Two-Mile Road.

A three-hour program Monday afternoon, from 2 to 5 p.m. in Schwab Auditorium, will be featured by talks by Mr. Goddard, William G. Edwards, professor emeritus of lumbering, and several alumni. The public is invited.

Faculty Receives

SS Preference Cards

Preference cards for voting on the proposed plan to integrate the present State Employees' Retirement System with Federal Social Security were passed out to faculty and staff members this week.

The card, on which the employee is asked to vote "yes" or "no" on the proposed plan and sign his name, with a witness, will be a permanent record of the person's wish to accept the plan or reject it. For that reason, all eligible employees have been asked to fill out a card whether they vote "yes" or "no".

McKinley, Noll, Maloney Named Associate Deans

David H. McKinley, Dr. Clarence I. Noll, and Richard C. Maloney have been promoted to the rank of associate dean in the Colleges of Business Administration, Chemistry and Physics, and the Liberal Arts, respectively, by the Board of Trustees.

McKinley, who is also professor of finance, was named assistant professor of economics in 1946 and in 1953, when the College of Business Administration was organized, was named assistant dean.

Dr. Noll came to the University in 1934 as research assistant. He was research chemist for The Borden Company from 1937 to 1941, before returning to Penn State as instructor in organic chemistry. He has served as assistant dean since 1950.

Maloney was named administrative assistant to the President and in 1953 assistant dean of the College of the Liberal Arts.

Rodgers, Lehrman Plan Summer Visits To Russia

Dr. Allen Rodgers, associate professor of geography, and Dr. Edgar H. Lehrman, assistant professor of Russian, will visit the Soviet Union this summer under grants from the Inter-University Committee on Travel, which is supported by the Carnegie Corporation of New York.

Dr. Rodgers has been awarded a grant of \$2,200 to visit geography faculties at various Russian universities, libraries, and industrial plants, in June. He will spend July and August in Italy, under an Office of Naval Research grant, studying the industrial geography of the port of Genoa.

Dr. Lehrman's grant of \$300 will enable him to extend a planned stay in Russia. He will conduct a tour in July under the auspices of the Cultural Travel Council of Simmons Tours with 15 persons, mostly university students. The tour will also cover Germany, Denmark, Finland, Sweden, Czechoslovakia, and France.

Senate Minutes

Minutes of the Meeting of May 16, 1957

The University Senate met at 8:00 p.m. on Thursday, May 16, 1957 in Room 121 Sparks Building with President Eric A. Walker presiding.

The minutes of the May 2 meeting were approved as printed in the Faculty Bulletin for May 10, 1957.

One hundred twenty-one senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: W. J. Mather (Walter Coutu), Michael Chiappetta (L. C. Hunt), R. H. Wherry (R. D. Pashek), and H. B. Charnbury (S. C. Sun).

A letter from Ben Euwema, Dean of the College of the Liberal Arts, stated that Malcolm Freiberg had been elected to replace Kent Forster on the Senate during his leave of absence from July 1, 1957 to January 31, 1958.

The following letter was received from H. K. Schilling, Chairman of the Senate Committee on Educational Policy:

Since the last meeting of the Senate the Committee on Educational Policy has received many valuable suggestions and criticisms regarding its proposals on Competence in English Usage. It is likely that careful consideration of these will lead to revision of the original recommendations. The Committee feels that in case a revision is actually forthcoming it should be considered widely throughout the University before the matter is again presented to the Senate. It proposes therefore that this particular matter not be discussed at the special Senate meeting scheduled for May 23, and that any further discussion of it by the Senate be postponed until early in the fall semester.

The Committee is resubmitting unchanged its proposals in regard to the requirement of Quantitative Thinking for consideration at the regular June meeting of the Senate. It requests that the May 23 meeting be devoted to a discussion of the matter, even though action on it cannot be taken at that time. The committee hopes that the special meeting will be well attended so all issues can be discussed thoroughly preparatory to action in June.

Respectfully submitted, in behalf of the Committee on Educational Policy, by
Chairman, Committee on Educational Policy

President Walker stated that if there were no objections we would dispense with the regular order of business and proceed directly to the report of the Special Committee. There being no objections, M. E. John, Chairman of the SPECIAL COMMITTEE ON THE ORGANIZATION AND OPERATION OF THE SENATE, presented the "Majority Report" which had been distributed at the last regular meeting of the Senate, and moved its adoption. The motion was seconded. The report is as follows:

PROPOSAL 1.

Report of the Committee on Organization and Operation of the University Senate

The Function of the University Senate

The function of the University Senate according to its Constitution and By-Laws is to serve as the sole legislative body on all questions that pertain to the academic interest of the University and all matters that concern more than one faculty, subject to the jurisdiction of the Board of Trustees. The term, academic interests, is interpreted to include all matters pertaining to academic standards and programs relating to research as well as to undergraduate, graduate and extension teaching. It is the primary purpose of the Senate to determine policy in regard to the above matters leaving it to the administration to execute it. What has been interpreted as the areas of concern of the University Senate is reflected by the names of the standing committees. They are as follows: 1. Academic Standards, 2. Admissions, 3. Athletics, 4. Calendar, 5. Committees, 6. Courses of Study, 7. Educational Policy, 8. Research Policy, 9. Extension Policy, 10. Military Instruction, 11. Rules, 12. Scholarships and Awards, 13. Student Affairs.

In addition, each year there are a number of temporary committees appointed to deal with more specialized problems relating to the program and academic standards of the institution.

Proposal No. 1 — QUOTAS OF SENATORS

Full-Time Academic Personnel	Total Quota (20+1/10) F.T.A.P.	By position					Members by Positions	Elec- tive
		Deans	School	Divi- sion	Depart- ment			
Agriculture	307	51	4	1	0	15	20	31
Bus. Admin.	53	25	3	0	0	3	6	19
Chem. & Phy.	121	32	2	0	0	3	5	27
Education	118	32	2	0	0	5	7	25
Eng. & Arch.	383	58	3	0	0	8	12	46
Home Econ.	64	26	3	0	4	5	12	14
Lib. Arts	309	51	2	2	0	15	19	32
Min. Ind.	121	32	3	0	3	12	18	14
Phy. Educ. & A.	60	26	2	0	0	0	2	24
Grad. School	0	12	3	0	0	0	3	9
Central Admin.	0	14	0	0	0	0	14	0
Military	0	3	0	0	0	0	3	0
Ag. County Ext.	0	8	0	0	0	0	0	8
TOTAL	1,536	370					121	249

The Composition of the Present Senate

Composition of the present Senate consists of 14 representatives from general administration, deans and assistant deans of the various colleges, heads of departments, divisions and schools, and eight elected members from each college. This method of determining the composition of the Senate has created a group where those who hold membership because of position (120) far exceed the number elected (80). Likewise, those who hold membership because of position continue year after year while the elected faculty representatives are selected for two years. From the standpoint of leadership, this wide difference in tenure works to the disadvantage of the elected members. At the present time, faculty members at the various Penn State Centers do not have the opportunity to participate in making nominations for elected positions, hold office or to take part in college elections. The large group of agricultural and home economics extension representatives are likewise not represented.

Objectives of the Committee Concerning Representation

The objective of the present committee was to devise a plan for determining membership of the Senate that would make its composition more representative of the total Penn State faculty. Your committee felt that the composition of the Senate should be small enough to insure efficient operation and large enough to insure balance and representation. The plan which it presents has grown out of many meetings of the committee. We have solicited the opinions of any who desired to meet with the committee. Meetings with various faculty groups have been held soliciting their counsel. It has been impossible, as we feel you all will appreciate, to come up with a plan that is palatable to all.

Recommendations of the Composition of the University Senate

The committee felt that the role of the University Senate should be largely policy making. It is recognized, at the same time, that a clear cut division cannot be made between administrative and legislative functions. For instance, standards for the admission of students must be based not only upon high academic standards but likewise upon the number of applicants, the financial status of the institution, and the number of available rooms in the university and community. It is entirely possible that administrative and non-administrative members of the faculty may work at cross purposes. Therefore, it is important that each play some part in both administrative and legislative functions. For that reason, the committee recommends that administrators make up part of the composition of the Senate recognizing that heads of departments are both faculty and administrators. Your committee recommends the representation as indicated in the following table. It is recommended that elected representative's term of office be for three years. As you will note from the table, we have increased the number of elected members. In order to reflect differences between colleges in the number who hold membership because of position, it is recommended that each be given a base of 20 representatives. For each college this base will include those who hold membership because of position plus enough elected individuals to make a total of 20.

In addition it is recommended that each college be given one additional representative for every 10 faculty members. Since the term of office is for three years it is recommended that each college use a rotating system, electing 1/3 each year. It is also recommended that one county agent and home demonstration agent be elected from their membership in each one of the four administrative regions. It is recommended that faculty members in the

Centers be permitted to participate in the selection and election of senators through the colleges including their subject matter area. Therefore, it is recommended that members of the Centers be given an opportunity by mail to make nominations and to vote. Members of the Centers are therefore eligible for membership in the University Senate. It is recommended that each college nominate at least two people for every position to be filled. This can be done by a nominating committee or from the floor as the college sees fit. As you will note from the table, the basis for determining the number of additional elected senators from each college is based on the number of full-time academic personnel. Representation from the graduate school is handled in a different manner than the undergraduate colleges. The graduate school is given 12 members. The military is given 3 representatives; one from the Army, one from the Navy, and one from the Air Force. It is understood that these will be the persons in charge of these programs.

The total membership for the present University Senate will be 370. It is recommended that every year the secretary of the Senate inform the various colleges of their quotas, calculated in keeping with the above formula.

The representatives from the general administration will include the following: President; Vice President—Academic Affairs; Vice President—Research; Vice President—Business; Vice President—Long Range Development; Director of General Extension; Director of Student Affairs; Dean of Summer Sessions; Dean of Men; Dean of Women; Dean of Admissions; Librarian; Chaplain (Coordinator of Religious Affairs); Director of Counseling.

The task remains of considering revisions in procedures of operation of the Senate. For instance the Senate committee structure and their operations in light of its purpose.

Respectfully submitted,

M. E. John, R. G. Bernreuter, Winona L. Morgan, Ben Euwema, H. K. Schilling, L. E. Fouraker, J. A. Sauer, V. E. Neilly, C. L. Hosler, R. M. Conger, F. A. Hughes, S. A. King.

In the discussion, some senators felt that the proposed membership of 370 would be too large, while others felt that a large membership is necessary to guarantee that all departments would be represented. Questions were raised as to the practicality of including representation from the off-campus centers and extension. The "Majority Report" (Proposal 1) provides for increase in membership as the University grows. A question was raised as to where we could hold meetings of the Senate.

(Note: These minutes will be continued in the next issue of the Faculty Bulletin, including three other proposals for reorganization of the Senate: a minority report by Leon S. Roudiez, a proposal by Joseph Jordan, and a proposal by E. R. Fitzgerald.)

Ed Student Council Provides Scholarship

The Student Council of the College of Education has provided a \$100 scholarship for the fall semester. The recipient must be a student in the College of Education who has been on campus at least one semester and who has displayed an interest in the field of education or psychology through scholarship, activities and attitude.

Dr. Julia Haber Gets Fellowship

Dr. Julia Haber, retired associate professor of botany, has received a fellowship from Sigma Delta Epsilon to make possible continuance of her studies in botany.



HONORS, which have been many for Mrs. Julia Haber, retired associate professor of botany, continue to come her way.

The latest award is the annual fellowship of Sigma Delta Epsilon, national graduate women's scientific fraternity. The post-doctoral fellowship, which is valued at \$1,600, has been given to Dr. Haber to aid in research in botanical studies which she has carried on since her retirement four years ago, and, in fact, for many years before.

The awarding of the fellowship to Dr. Haber has several unusual aspects. In general the fellowship is made to a woman who is relatively young, yet Dr. Haber has already retired. Also, Dr. Haber was one of the charter members of Alpha (Cornell University) chapter of the Society and was instrumental in starting the Nu chapter at Penn State, of which she was the first president. Thirdly, the fellowship is the only source of funds for the important botanical work she is doing.

The project involves the micro-macroscopic studies of a family of plants taxonomically called *Proteaceae*, which includes trees and shrubs found in tropical regions of Australia, South Africa, and Central and South America. Dr. Haber is analyzing the morphology and anatomy of the flowers because there is controversy over the phylogenetics of the family.

"Generally speaking," Dr. Haber says "the family has been studied previously only by hand lens or by gross determination. Consequently, there is debate as to whether the plants are 'primitive' or 'advanced'.

"If my conjecture is correct, microscopical studies will show that they are advanced in many respects. Botanists are always seeking more detailed information to clarify their classifications."

These shrubs and trees are rarely found in the United States and apparently in those few cases because they have been imported. Dr. Haber was surprised, therefore, when on a recent trip to Florida she discovered some silk oak trees, which belong to the *Proteaceae*. These are ornamentals, as are many species of this family. There are several commercially imported trees in the family, however, including the lacewood tree of Australia.

That Dr. Haber's study is complex is illustrated by the fact that there are over 1200 species in the family. However, only a few representatives of most of the 55 genera will be examined. Each floral specimen considered requires the time-consuming process of cutting many thin sections of the flower, using a rotary microtome, mounting these on slides, staining them, and then subjecting them to microscopic examination.

"I have received many specimens from Dr. Arthur J. Eames, retired professor of botany at Cornell University," Mrs. Haber points out. "He collected them during a visit to Australia under a Fulbright grant. Others have come to me from Africa, and from the herbarium of the Chicago Natural History Museum. I hope to have many more before I am finished."

Dr. Haber was assistant professor of zoology from 1924 to 1936, after teaching at Elmira and Meredith Colleges and at Cornell University. She resumed teaching, this time in botany, in 1947, after her husband's death. She retired in 1953 but not to remain idle.

Prior to her retirement, teaching duties and administrative duties in setting up equipment for the new addition to Buckhout Lab kept her from research. But since then she has continued studies similar to those she made previously in other families of plants.

For a person who is retired, she is hardly less active than she had been previously. Although in her research she approaches botanical specimens from a scientific viewpoint, as a gardener she looks on flowers from an artistic view.

It is obviously a signal honor which has come to her, but just as obviously well deserved. She's looking forward to several year's work on this one project alone and when she's finished with that, anticipates others to keep her busy.

Five Faculty Appointments Approved By Trustees

Appointments of five new faculty members have been approved by the Board of Trustees:

Alexander Cohen, as research associate in the Human Factors Research Program in the department of psychology. Cohen received his master's degree from the University of Delaware and his appointment is effective as of Feb. 1.

Albert S. Hunter, as professor of soil technology, effective July 1. He is presently professor of soil technology at Oregon State College and a senior soil scientist of the U.S. Department of Agriculture.

Robert P. Pfeiffer, associate professor of agronomy, effective July 1. He now holds the same rank at the University of Wyoming.

Paul T. Baker, as research associate in physics, effective July 1. He is now a civilian employee of the Quartermaster Research and Development Command of the U.S. Army.

Mary E. Paul, as associate extension home economist, effective June 17. She is now home economics instructor at Sewickley Twp. High School.

University Press Issues First Publication; Explains Policies

The first publication of the University Press, which was formally organized in October, has been published and is now being distributed.

Entitled "Proceedings of the Tenth National Conference on the Administration of Research", it is a 142-page production presenting discussions and addresses of a conference which originated at Penn State and has since gained world-wide repute.

The proceedings had been published for the past two years by the New York University Press, which bid for this year's document. But it was awarded to Penn State's Press because the conference was conceived and will be maintained here.

The Press does not intend to issue conference proceedings ordinarily, Louis H. Bell, executive director said. "But in this case the subject is important and exclusive and the market demand fairly good." Nearly 500 books were ordered in advance of publication.

Typography and production were in charge of Wendell MacRae, of the Public Information Department; cover design, by Iantha K. McCloskey, of General Extension; and editing by Robert H. Ramsey, professor of engineering research.

Other members of the University Press Committee are Dr. Kinsley R. Smith, Dr. George Brandow, Dean Richard C. Maloney, Dr. E. Willard Miller, and Christian K. Arnold.

Romance Language Test Scheduled

Candidates for doctor of philosophy degree who wish to take the written examination in French, Italian, or Spanish given on July 29 should go to office of the department of romance languages, Room 300 Sparks Building, on the day of registration for the main session of Summer School, July 1, to take the oral test, unless they have already done so.

These will be the last oral tests to be given for the next written tests.

Poetry Magazine Gains In Popularity

Pivot, the campus magazine devoted to poetry and organ of the Poetry Workshop, celebrated its seventh birthday this month by surpassing all previous sales.

Joseph L. Grucci, associate professor of English composition and director of the Workshop, reports that more than 1,000 copies were sold. The fact that the publication is self-sustaining is considered unusual for campus publications, especially poetry magazines.

Members of the faculty of the department and others who have been students in the Workshop have contributed to **Pivot**, as have undergraduate students.

The University Press Committee, which has just issued the first publication of the Pennsylvania State University Press, has announced policies governing publication:

1. The Press makes no restrictions that would prevent the publication of any good book or periodical. Practical considerations, however, dictate that some priorities be set up in selecting manuscripts.

2. First consideration will be given to manuscripts submitted by faculty and staff members. Upon occasion, the University Press may publish books or periodicals prepared by others.

3. As an ordinary practice, the Press will not publish text books, reference books, outlines, or similar manuscripts.

4. It will not publish tracts, pamphlets, leaflets, or similar documents except under unusual circumstances.

5. Also in exceptional cases, the Press will consider publishing the proceedings of certain outstanding conferences related to the program of the University.

The University Press functions through a committee of six members. This group is known as the University Press Committee, is appointed by the President of the University, who designates one member as executive director. Manuscripts should be submitted to the executive director or to any committee member (see adjacent story).

Philosophical Society Holds Meeting Tomorrow

The spring meeting of the Western Pennsylvania Philosophical Society on Saturday, May 25, will feature a paper by Louis van Haecht, professor of the Higher Institute of Louvain, Belgium, and a symposium.

The symposium, for which Dr. John M. Anderson, professor of philosophy, will act as moderator, is on the subject of "Explanation in the Natural Sciences and the Human Sciences," and will be given at 2 p.m. in the same room. Speakers will include Dr. Henry A. Finch, professor of philosophy, and Aaron Druckman, associate professor of philosophy, as well as two members of the faculties of Chatham College, Pittsburgh, and the University of Pittsburgh.

Interested faculty members and students are invited to attend the meetings.

Latin American Scientists Visit Nuclear Facilities

Two groups of Latin American scientists and administrators, interested in developments in nuclear training, visited the University this week. They are among 200 Latin Americans in this country for the Inter-American Symposium on the Peaceful Applications of Nuclear Energy which was held at Brookhaven National Laboratory, N.Y.

Items of Interest

Samuel Shulits, associate professor of civil engineering, presented a paper on "Eddy Viscosities in Open Channels" before the annual meeting of the American Geophysical Union of the National Research Council in Washington, D.C. recently.

* * *

Gilbert L. Crossley, assistant professor of electrical engineering, presented a paper on emergency mobile operation of radio equipment before the annual conference of the United States Civil Defense Amateur Radio Alliance, at Battle Creek, Mich., recently. He was confirmed as chairman of the public relations committee of the Alliance at the same meeting.

* * *

Harold P. Zelko, professor of public speaking, spoke on "Effective Speaking" at a luncheon meeting in connection with the 43rd semi-annual meeting of the Pennsylvania Consumer Finance Association in Pittsburgh recently. He was also a judge for the effective speaking contest.

* * *

Dr. Arnulf I. Muan, assistant professor of metallurgy, presented three papers concerning studies of non-metallic systems important in iron blast furnace operation before the 59th annual meeting of the American Ceramic Society in Dallas, Tex., recently.

* * *

Elmer R. Queer, director of engineering research and first vice-president of the American Society of Heating and Air-Conditioning Engineers, addressed a St. Louis, Mo., chapter of that Society recently on "What Are Our Future Energy Sources."

* * *

George L. Donovan, manager of Associated Student Activities, participated last week in the dedication of a new student union building at Illinois State Normal University, Normal, Ill. He spoke on the role of the university union. Donovan is national president of the Association of College Unions.

* * *

An article by Dr. John F. Corso, associate professor of psychology, appears in a recent issue of the Journal of the Acoustical Society of America. The article is titled: "Confirmation of the Normal Threshold for Speech on C.I.D. Auditory Test W-2."

* * *

Dr. Clifton A. Anderson, professor of industrial engineering, will participate tomorrow in the installation of a chapter of Alpha Pi Mu, industrial engineering honor society, at the University of California. Dr. Anderson is national president of the society.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Saturday, June 1

Closing lecture of the Westinghouse Lecture Series, 8 a.m. to 12 noon, 117 Osmond, with Mr. Joel Weisman, Westinghouse Electric Corp., on "Liquid Fuel Reactors."

Wednesday, June 5

Spring semester ends, 12:30 p.m.

Friday, June 7

Combined Baccalaureate Service and Class Night ceremony, 7:30 p.m., Schwab Auditorium. E. William Muehl, professor of practical theology, Yale Divinity School, on "The Paralyzing Ideal."

Saturday, June 8

Commencement program, with Dr. Detlev W. Bronk, president of Rockefeller Institute for Medical Research, speaker. 10:30 a.m., Beaver Field. In case of rain, two programs in Recreation Building, 10:30 a.m. and 2 p.m. R.O.T.C. commissioning program, 9 a.m., Schwab Auditorium. Air, Navy, and Army R.O.T.C. graduates administered oath of office in respective services.

Home Economics coffee hour for graduates and parents, 8:30 a.m., Living Center, Home Economics Building.

Dr. Long To Visit, Study In Brazil

Dr. Charles M. Long, professor and head of the department of education, has been granted a year's leave of absence to serve as technical director of an elementary education project in Brazil with the International Cooperation Administration. He will leave July 1 and return here July 1, 1958.

This will be Dr. Long's third visit to Latin America. He served three months in 1956, as exchange professor, visiting Cuba, El Salvador, Colombia, Bolivia and Peru. This year he was in Ecuador from Feb. 15 to Mar. 15, as exchange professor.

His duties in the coming year will include establishment of an improved program for preparation of elementary teachers in Brazil. He will also travel extensively in South America, visiting other countries to study their elementary education programs. He also plans to write a book on elementary education.

His headquarters in Brazil will be at Belo Horizonte, 300 miles north of Rio De Janeiro.

Grant Will Support Mass Education Study

A grant of \$14,800 from the Fund for the Advancement of Education has been made to support a research study aimed at determining methods of eliminating some of the undesirable factors in mass education.

Experiments in this area, points out Dr. C. R. Carpenter, head of the department of psychology who will direct the study, have shown so far little difference in achievement between students taught in large classes and those taught in small groups. Many critics of mass education believe, however, that educational objectives related to the personal and intellectual development of students are lacking in larger classes. The research study will begin with the premise that these shortcomings do exist.

Graduate students and outstanding undergraduates will work in units headed by a faculty member in the study. Project sessions will not replace regular classes but will be in addition to the regular academic program.

Dr. Leslie P. Greenhill, associate director of the Instructional Research Program, Dr. Deno G. Thevaos and Dr. William S. Ray, associate professors of psychology, and Dr. Francis L. Whaley, assistant professor of psychology, will assist in the project.

LaVie Dedicated To Harold Dickson

The 1957 senior yearbook, LaVie, has been dedicated to Dr. Harold Dickson, professor of history of art and architecture. The dedication points out that Dickson has been a part of Penn State for nearly 40 years, as student, alumnus and teacher.

A 1922 graduate, Dr. Dickson has served on the faculty since 1923.

Senate Meets June 4

The University Senate will meet on Tuesday, June 4, at 4:10 p.m. in the Assembly Room of the Hetzel Union Building.

Yale Professor Named Baccalaureate Speaker

E. William Muehl, professor of practical theology at Yale University Divinity School, will present the baccalaureate address on June 7 at 7:30 p.m. in Schwab Auditorium. He will speak on "The Paralyzing Ideal."

A graduate of the University of Michigan in political science, he received the degree of LL.B. from the Michigan Law School and the honorary degree of master of arts from Yale University.

Muehl has been a practicing lawyer and active on both local and national levels in the political scene. In addition to teaching at Yale University, he has also spoken and preached at many universities, colleges, and preparatory schools. He has also been an arbitrator in labor disputes in New England.

He is a member of the Michigan State Bar Association, the American Arbitration and the Commission on Christian Faith and the Legal Profession of the United Student Christian Council. He is the author of two books, "Politics for Christians" and "The Road to Persuasion," and of numerous articles.

Committee Formed To Study Hotel, Restaurant Program

A special committee to appraise the University's educational facilities and program in hotel and restaurant management has been appointed by President Eric A. Walker at the suggestion of Pennsylvania restaurant and hotel owners. The committee members, who will make recommendations for the future, were selected by the group.

Milton Fritsche, vice president of Horn and Hardart and a trustee of the University, was selected as chairman of the committee; Charles B. Heinze, of Carlisle, was named vice chairman. Other committee members include Edmund L. Flynn, of the Ft. Bedford Inn; Richard A. Benefield, manager of the Magee Hotel, Bloomsburg; James Mantis, president of the Capitol Baking Co.; and W. A. Kelley, management consultant to Dr. Walker, who will serve as executive secretary.

Senate Minutes

Minutes of the Meeting of May 16, 1957

(Continued from last week)

The President then called on L. S. Roudiez to present the "Minority Report" (Proposal 2), of the SPECIAL COMMITTEE ON THE ORGANIZATION AND OPERATION OF THE SENATE, which had been distributed at the last regular meeting of the Senate. Mr. Roudiez presented the report and moved the substitution of the "Minority Report" (Proposal 2) for the "Majority Report" (Proposal 1). The motion was seconded. The report is as follows:

PROPOSAL 2.

Minority Report of the Committee on the Senate

The undersigned cannot accept the conclusions reached and the recommendations made by the majority of the members on the Committee because it is felt: 1) that they do not fully meet the criticism of the University presented in the Middle State Accreditation Report; 2) that they do not reflect the role the University faculty must assume in determining University policy; 3) that they do not sufficiently take into account suggestions made by members of the Faculty, either in writing or orally at open meetings of the Committee. It thus seems from certain that the majority report reflects the sentiment of the general faculty.

The following changes to the Constitution of the Senate are therefore presented as a minority report. See page 2.

Such changes would result in a distribution of senators among the various Colleges as indicated in the table below. (It should be noted that the intent of Art. I, Sec. 2, Para. B, is to permit the election to the Senate of Department Heads and qualified administrative personnel.)

College	Faculty	Senators
Agriculture	307	15
Business Admin.	53	6
Chemistry & Physics	121	9
Education	118	9
Engineering	383	18
Home Economics	64	6
Liberal Arts	309	15
Mineral Industries	121	9
Physical Education	60	6
Graduate School		6
Total:		99

N.B. The Committee as a whole has agreed not to present any changes in the By-Laws at the present. It should be obvious, however, that the suggestions of the minority report imply a complete reorganization of the Committee structure in the Senate and a possible re-allocation of some committees under different auspices (i.e., they might become Administrative Committees rather than Senate Committees); they also imply that Senate meetings are open to any member of the University who wishes to come, either to listen or to present his views.

Respectfully submitted,
Leon S. Roudiez

CONSTITUTION Article I Membership

Section 1.

The following shall be members of the University Senate: A. The President and the Vice Presidents of the University, *ex officio*. B. Representatives of the Faculty, elected by the several undergraduate Colleges and the Graduate School as follows:

a) The Graduate School and the undergraduate Colleges are each allotted a minimum of 6 senators elected for a term of 3 years, 2 being elected each year.

b) Each undergraduate College is entitled to 3 additional senators for every 100 faculty members on its staff. These additional senators are also elected for a period of 3 years, one third being elected each year.

Section 2.

A. Senate elections are held in each undergraduate College and in the Graduate School by secret ballot of the entire faculty after at least two candidates have been nominated for each position to be filled. Members of the Faculty at the Pennsylvania State University Centers may send in nominations and participate in elections in the Colleges with which they are affiliated.

B. Anyone holding the academic rank of Assistant Professor or above, no matter what

his present position, whether on Central Campus or in the Centers, is eligible to the Senate.

C. The University Senate shall be the sole judge of the election and qualifications of its members.

In the discussion on the "Minority Report" (Proposal 2), it was pointed out that with a smaller Senate more individual discussion from the floor would be possible, and smaller committees would be formed which would make for easier scheduling of meetings. H. J. Read moved an amendment to the "Minority Report" to add to the *ex officio* members one dean from each of the Colleges and the Graduate School. The motion was seconded and passed.

Joseph Jordan presented a plan (Proposal 3) and moved that it be substituted for the "Minority Report". Proposal 3 is as follows:

PROPOSAL 3.

Amendment to the Proposed Changes in the Constitution of the Senate Regarding Membership

Section 1. The membership of the University Senate shall be as follows:

- Ex officio*, the President and the Vice Presidents of the University;
- Per each 30 faculty members (or fraction thereof) each undergraduate College is entitled to three senators. Two-thirds of these will be elected by the faculty; one third will be appointed by the Dean of the College.
- The Graduate School is entitled to 9 senators. Six of these will be elected by the Graduate Faculty. Three will be appointed by the Dean of the Graduate School.

Proposal 3 — DISTRIBUTION OF SENATORS

College	Elected	Senators Adminis- trative	Total
Agriculture	22	11	33
Bus. Adm.	4	2	6
Chem. and Phys.	10	5	15
Education	8	4	12
Eng. and Arch.	26	13	39
Home Economics	6	3	9
Liberal Arts	22	11	33
Min. Ind.	10	5	15
Phys. Ed.	4	2	6
Graduate School	6	3	9
Old Main	..	5	5
TOTAL	118	64	182

The motion was seconded and lost.

The motion to substitute the "Minority Report" for the "Majority Report" was lost.

J. A. Sauer moved an amendment to the "Majority Report" so that a quota of senators of a College would be as stated but would not exceed 1/5 of the faculty. This would limit the membership to 305. The motion was seconded and lost.

E. R. Fitzgerald distributed Proposal 4, Proposal for Revision of University Senate Membership and Rules of Procedure, and moved its adoption as a substitute for the "Majority Report." The motion was seconded and lost. Proposal 4 is as follows:

PROPOSAL 4.

Proposal for Revision of University Senate Membership and Rules of Procedure

The purpose of the University Senate should be the formulation of faculty recommendations for university policy through appropriate legislation and on the basis of a representative expression of faculty opinion.

In order that the Senate may be a deliberative body, and in the interest of conserving

faculty time, the Senate should be as small as is possible, consistent with adequate representation of the faculty. Accordingly, the following system is proposed: That the Senate consist of 9 elected members from each of the colleges and graduate school and in addition each college elect 1 senator for each 50 faculty members; that all heads of departments of resident instruction be *ex officio* members; and the President, Vice-Presidents, Director of Student Affairs, and the Director of General Extension be *ex officio* members. It is also suggested that County Agents elect three (3) representatives and that faculty members in the centers participate in elections.

In accordance with the preceding plan it is proposed that Article I, section 1 of the Senate Constitution be amended to read as follows:

Article I MEMBERSHIP

Section 1.

(a) The following shall be members of the University Senate: *ex officio* the President of the University, the Deans of the several colleges and the Graduate School, the Vice President for Instruction, the Vice President for Research, the Vice President for Business, the Vice President for Long Range Development, the Director of Student Affairs, the Director of General Extension, the Dean of Summer Sessions, and the heads (or acting heads) of Departments of Resident Instruction; nine (9) representatives elected by ballot by the faculty of each college and the Graduate School for a term of three (3) years, of which three (3) shall be elected each year; one (1) representative elected by the faculty of each college for each 50 faculty members for a term of three (3) years; and three (3) representatives elected by agricultural county agents for a term of three (3) years, one (1) being elected each year.

(b) The University Senate shall be the sole judge of the elections and qualifications of its elected members.

(c) The provisions of this amendment shall take effect at the beginning of the academic year following adoption and approval by the Board of Trustees. In the first election following adoption the College representatives shall be elected as follows: at least three for a term of one (1) year; at least three (3) for a term of two (2) years, and at least three (3) for a term of three (3) years. In all succeeding elections the terms of office shall be as specified in section 1 (a) of this article.

In addition it is proposed that section 5, Article V of the by-laws be amended to read as follows:

Article V RULES OF PROCEDURE

Section 5.

(a) Members of the general faculty shall have the privilege of attending senate meetings and shall sit in a section reserved for visitors.

(b) The privilege of the floor may be extended to any faculty member upon request to the chair and with the consent of the Senate.

E. H. Freund moved that the "Majority Report" be amended so that the tenure of the elected members would be changed to four years, with one-fourth of the number being elected each year. The motion was seconded and passed.

Mr. Freund moved that the proportion between elected and nonelected senators be fixed at 3 to 2 in favor of the elected senators. The motion was seconded and lost.

Mr. Freund moved that a sliding scale be used in electing senators from the various Colleges. He proposed a base of 12 representatives for the first 100 full time academic faculty members; from 100 to 200, add six; and for more than 200 add six more. The motion was seconded and lost.

M. N. McGeary moved that the "Majority Report" be referred back to the committee with instructions to use Proposal 4 as a guide,

Proposal 4 — PROPOSED DISTRIBUTION OF SENATE MEMBERSHIP

	Full-time Academic Personnel	Senators by Election	—Senators by Position—			Total Senators
			Deans	Dept. Heads	Total	
Agriculture	307	15	1	15	16	31
Bus. Adm.	53	10	1	3	4	14
Chem. and Phys.	121	11	1	3	4	15
Education	118	11	1	5	6	17
Eng. and Arch.	383	16	1	8	9	27
Home Econ.	64	10	1	5	6	16
Lib. Arts	309	15	1	15	16	31
Min. Ind.	121	11	1	12	13	24
Phys. Ed. and Ath.	60	10	1	..	1	11
Grad. School	..	9	1	..	1	10
Central Adm	..	..	..	..	7	7
Military	..	..	..	3	3	3
Ag. County Agents	..	3	..	..	..	3
Summer Sessions	..	..	1	..	1	1
TOTAL	1,536	122	11	69	87	209

with instructions that the faculty members should be held to approximately 210, the majority being elected members as compared to the administrative members. The motion was seconded and lost.

T. C. Benton moved that the meeting adjourn. The motion was seconded and lost.

Eugene Ackerman moved that the matter be referred to a new committee with H. K. Schilling as chairman. The motion was seconded and lost.

The President stated that changes in the Constitution required a two-thirds vote of those present. The action on the motion to approve the "Majority Report" resulted in a tie vote. Lacking the two-thirds majority the motion was lost.

Mr. Schilling spoke in reference to his letter which had been read earlier in the evening and stated that he would like to have discussion at the May 23 special meeting on the report of the SENATE COMMITTEE ON EDUCATIONAL POLICY regarding Competence in Quantitative Thinking, but that action should be postponed until the regular meeting of the Senate on June 4. A. W. VanderMeer moved that at the special meeting on May 23 we ask for unanimous consent of the Senate to act on the proposal at that time. The motion was seconded and passed.

M. E. John moved that the Special Committee on THE ORGANIZATION AND OPERATION OF THE UNIVERSITY SENATE be dismissed. The motion was seconded and lost.

The next regular meeting of the Senate will be on Tuesday, June 4 at 4:10 p.m. in the Assembly Room of the HUB. The agenda will be distributed on May 23.

The meeting adjourned at 10:10 p.m.

Ray V. Watkins, acting for
C. O. Williams, Secretary

Minutes of the Special Meeting of May 23, 1957

The University Senate met at 8:00 p.m. on Thursday, May 23, 1957 in the Assembly Room of the HUB with President Eric A. Walker presiding.

Ninety-seven senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: Michael Chiapetta (L. C. Hunt), Joseph Jordan (J. R. Hayes), R. C. Bernreuter (M. L. Zeigler), O. R. MacKenzie (J. J. Kaufman), and E. R. Queer (W. E. Ranz).

REPORTS OF STANDING COMMITTEES
H. K. Schilling, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented and reviewed a report for the Committee on the GENERAL EDUCATION REQUIREMENT OF COMPETENCE IN QUANTITATIVE THINKING which follows:

Recommendation of the Senate Committee on Educational Policy Regarding

General Education Requirement of Competence in Quantitative Thinking

The report of the Sub-Committee on General Education (See Senate Agenda for October 7, 1954) recommended to the Senate that the University require all students who are candidates for a baccalaureate degree to show competence of various kinds before being admitted to junior standing. The Senate accepted this recommendation in principle, and voted that it be put into practice gradually, on an experimental basis, beginning with the skills in the use of English and in quantitative thinking.

We have had a sub-committee (see Senate Agenda for February 10, 1955) considering how this action of the Senate could be implemented. As the result of their findings we now recommend the following:

Recommendations

1. All freshmen upon entering the University shall be required to take a comprehensive examination in quantitative thinking.
2. Remedial work shall be made available for those who fail this examination.
3. All students who are candidates for baccalaureate degrees must pass such examination before being admitted to junior standing.
4. The minimum level of competence to be required for junior classification shall be that envisioned by the Sub-Committee on Quantitative Thinking in their report of January 5, 1956. (See quoted on page two and three). It is proposed that a test to measure such aspects be devised or selected by The Bureau of Academic Research and Services in consultation with a special Senate Committee on Quantitative Thinking.
5. The special Senate Committee on Quan-

titative Thinking shall, in consultation with The Bureau of Academic Research and Services, be responsible for determining the passing scores for junior classification, and for any other aspects of the administration of this examination in which academic standards and the academic calendar are involved.

6. The Senate shall request the University Administration to establish facilities and procedures for implementing these policies and regulations so that they may become effective as soon as is practical.

The question has been asked whether the University should not specify competence in quantitative thinking as a requirement for entrance to the University. We have considered this at length and have concluded that it would not be wise to make such a requirement at this time.

It should be understood that the adoption of these recommendations is tantamount to establishing on a University-wide basis a new kind of graduation requirement, one specified in terms not of credits or course requirements, but of a particular kind of competence which students in all fields shall achieve. The establishment of this standard should be widely publicized throughout the state, so that parents and secondary school teachers and administrators shall be aware of it.

We formally recommend also that:

If it seems feasible administratively, failures in these examinations shall be reported back to the high schools where the failing students were graduated.

We are making these recommendations fully realizing that we shall encounter real problems as the program develops. We recognize, too, that it will entail a considerable amount of educational experimentation before examinations, remedial work and advising in this program can be adequate. We hope the Senate will accept this proposal in the same spirit, recognizing that the only way to solve such problems is to proceed experimentally.

Respectfully submitted,
Committee on Educational Policy

*Quoted from the January 5, 1956 report of
Sub-Committee on Quantitative Thinking*

The sub-committee, after initially observing that each subject matter specialty has its own threshold of competence in quantitative thinking, and they are without doubt widely separated, finally reached the conclusion that every student, regardless of his field of special interest, should be able to:

1. Use whole numbers, common fractions, decimals, and percentages effectively.
2. Solve simple verbal problems in arithmetic and mensuration.
3. Estimate an answer before actual computation.
4. Apply arithmetic to the solution of personal, home, and community problems.
5. Use letters to represent numbers.
6. Solve simple equations.
7. Interpret simple charts and graphs.
8. Round off numbers.
9. Use ratios.
10. Use simple measuring instruments such as a ruler or scales.
11. Make unit conversions.

Among those who spoke during the discussion were E. H. Freund, T. C. Benton, R. T. Oliver, D. G. Thevas, H. L. Krall, E. W. Calenbach, H. M. Davison, R. G. Stoner, T. S. Oakwood, A. J. Shaler, L. F. Peck, R. J. Mather, L. S. Roudiez, W. S. Smith, Christine Salmon, and J. D. Lawther.

After one hour of discussion a straw vote was taken on the six recommendations, the purpose being to give the Committee on Educational Policy some indication of the thinking of the Senate.

The meeting adjourned at 9:31 p.m.

C. O. Williams
Secretary

ROTC Graduates To Receive Commissions

The program of commissioning of cadets who will be graduating June 8 and will receive commissions in the Air Force, Navy, and Army will be held in Schwab Auditorium at 9 a.m., preceding commencement.

A total of 174 seniors in the three services will receive commissions as second lieutenants or ensigns.

The oath of office will be administered by Col. A. W. Kogstad for the Army, Captain V. B. McCrea, for the Navy, and Col. D. G. Riva, for the Air Force.

161 Will Graduate With Honors June 8

Gerald Cooper, senior in science, of Morrisville, Pa., has been named valedictorian and James Foyle, senior in education, of Kent, Ohio, salutatorian, of the senior class.

The 161 students who have attained an average of 3.40 or better and will be graduated with honors on June 8 are as follows:

College of Agriculture

Marjorie A. Blank, Charles F. Bowers, Jr., Edward P. Edinger, Jr., Norman J. Galvin, Elizabeth J. Henry, James P. Houck, Jr., Anthony C. Macri, Jr., Darlene M. Rumbaugh, Kathryn Simons, Sandra J. Trexler, Barbara A. Voysey, Edward W. Wickersham.

College of Business Administration

John G. Boyanowski, David D. DiFebo, Paul B. Gilpin, Jane Groff, Joseph L. Jodie, Robert D. Jones, Robert L. Krakoff, John R. Madore, James E. Montgomery, Charles D. Moose, Edward Steck, Raymond J. Stubblebine, John A. Yeakel.

College of Chemistry and Physics

Sheldon Amsel, Charles A. Anderson, James B. Anderson, John D. Anderson, Richard H. Ball, Edward G. Biskis, Peggy J. Brown, Kenneth Christiansen, Gerald E. Cooper, John W. Eastman, Joseph H. Eberly, James E. Herlocher, John R. Kenemuth, Muriel E. Moldawer, Mason Walsh, Kenneth D. Williamson, Jr.

College of Education

Shirley M. Anselmo, Barbara A. Butler, Carole Denniston, Susanne Fisher, Barbara E. Fluck, James K. Foyle, William M. Gaddes, Jean M. Hanford, Ronald R. Hescoc, Morgan V. Lewis, Suzanne B. Loux, John F. Mauk, Kathryn A. Metz, Norma E. Michael, Mary L. Moore, Natalie L. Moskowitz, John C. Munton, Sarah E. Murdoch, Shelia Nearing, Doris L. Paschall, Kenneth E. Renner, Jr., Betty L. Seider, Donna L. Springer, Ruth A. Stafford, Ingrid S. Strobe, William P. Sullivan, Mary L. Walker, Mary S. Walker, Friederike Witte.

College of Engineering and Architecture

Engene Andreosky, Keith D. Bartley, John M. Carpenter, Paul F. Christopher, Ralph H. Clinard, Ronald L. Duty, Ronald K. Eisenhart, Donald R. Finley, Jr., Robert T. Foreman, Ralph J. Gagnon, Lyle R. Gilbert, Paul W. Hill, Robert L. Horlacher, Frank Kahoun, Bruce E. Kempf, Kenneth P. Kerr, Edward H. Klevans, Roger L. Klingeman, Herbert A. Knappenberger, Thomas P. Kohler, Edward T. Kornowski, Richard P. McNitt, Lloyd J. Mathew, Omer E. Murray, Jr., James G. Musser, Jr., Jean D. Platt, Andy Prysiazniuk, Floyd H. Reeser, Donald P. Rozenberg, Rene A. Steigerwalt, Boris Stoincheff, Benjamin P. Thayer, Ronald D. Trupp, Ira M. VanSteenberg, George W. Wolfe, Dennis C. Wright.

College of Home Economics

Mary E. Anderson, Elizabeth W. Beveridge, Miriam Bushkoff, Martha S. Fleming, Ann M. Forster, Miriam L. Jones, Barbara A. Kulp, Mary E. Manifold, Sandra P. Mayes, Audrey J. Neff, Magdalene R. Russell.

College of the Liberal Arts

Sidney P. Brindley, Robert J. Detisch, Thomas R. Dye, Linda K. Gerber, Casimir J. Gromadzki, James E. Hopkins, William H. Imler, Jr., Ethel I. Johnson, John Kozy, Jr., Martha C. Michener, Lee A. Ranck, Kim B. Rotzoll, Frederick F. Stiff.

College of Mineral Industries

Charles H. Bowman, Walter M. Cox, Robert E. Zartman.

Associate Degree Candidates

Leland E. Bailey, Laurence K. Beischer, James Blackledge, Jack E. Bricker, Clayton E. Fairchild, James J. Fellin, Harry R. Fields, Richard A. Gaz, Larry A. Hamilton, Glenn U. Hoffman, Theodore Kasander, Eugene E. Korkinda, James V. Kursar, Anthony F. Land, Ira B. McMaster, Irene V. Matyassy, Kermit L. Merkel, Joseph T. Muhr, Robert E. Noel, George M. Palmer, Charles D. Parmigiani, Cyril A. Pipan, Stephen J. Popick, James P. Roth, Edward C. Smith, Bruce J. Snyder, Alan L. Sollenberger, Robert A. Solits.

Board Approves Leaves For 22

Leaves and extensions of leaves for 22 faculty members have been approved by the Board of Trustees.

Dr. Harold K. Schilling, dean of the Graduate School and professor of physics, two leaves of three months each, the first during the summer of 1957, for travel and study.

Dr. Charles M. Long, professor and head of the department of education, July 1 to June 30, to serve as an educational specialist with the International Cooperation Administration in Belo Horizonte, Brazil.

Milton S. Osborne, professor and head of the department of architecture, Sept. 1 to June 30, to travel and study modern trends in design and construction, particularly in concrete, in Italy and Germany.

Dr. Walter Coutu, professor of sociology, Sept. 1 to Jan. 31, for travel and writing.

R. Rupert Kountz, professor of sanitary engineering, Aug. 1 to Jan. 31, for study and research at Army Biological Warfare Center and to write a textbook.

Dr. George B. Lott, psychiatrist, Sept. 1 to June 30, for development of teaching methods and research.

Dr. James Gemmell, professor of education, Sept. 1 to Aug. 31, to accept a Fulbright grant as lecturer at the Helsinki School of Economics and the Swedish School of Economics, Helsingfors, Sweden.

Dr. Robert W. Taft, Jr., professor of chemistry, Feb. 1 to June 30, for advanced study at Harvard University.

A. O. Rasmussen, professor of ornamental horticulture extension, Sept. 1 to Nov. 30 and Mar. 1 to May 31, to visit ornamental horticulture departments and observe new nursery industry and garden center operating techniques.

Dr. Paul M. Kendig, professor of engineering research in Ordnance Research Laboratory, July 16 to Aug. 31, to participate in studies with the National Research Council.

Jane Ann Bovie, associate professor of child development and family relationships, July 1 to June 30, for graduate study at The Merrill-Palmer School in Detroit, Mich.

Dr. Eugene Ackerman, associate professor of physics, July 1 to June 30, for special study on enzymes at Johnson Research Foundation at the University of Pennsylvania.

Dr. Julian Eisenstein, associate professor of physics, July 1 to June 30, for research and study in the Low Temperature Section of the National Bureau of Standards.

George L. Settlemyer, county agricultural agent in Juniata county, Oct. 16 to Apr. 15, for graduate work at University of Wisconsin.

Elliot Rhian, research associate at the Ordnance Research Laboratory, May 1 to June 30, to participate in studies with the National Research Council.

Leaves extended included those of Dr.

John H. Ferguson, professor of political science, July 1 to June 30, to continue as Secretary of Administration in the Office of the Governor, Harrisburg.

Dr. Harold F. Alderfer, professor of political science, July 1 to Jan. 31, to continue as director of Program Evaluation in office of State Secretary of Administration, Harrisburg.

Ralph C. Blaney, professor of agricultural extension and assistant director of agricultural and home economics extension, July 1 to Aug. 31, to continue study of agricultural and rural life in Europe.

Paul S. Williams, professor of dairy production, July 1 to Aug. 31, to continue study of research in field of dairy production.

Dr. John H. Reedy, associate professor of economics, July 1 to June 30, for research on business world.

C. Ruth Kredell, extension home economist in York county, July 1 to Sept. 15, to continue graduate study at University of Wisconsin.

Dates of the leave previously authorized Dr. Jerome K. Pasto, associate professor of farm management, were changed to the period of May 1, 1957 to June 30, 1958. He has accepted an appointment with the Food and Agriculture Organization of the United Nations.

Home Ec Coffee Hour For Graduating Seniors

The College of Home Economics will hold a coffee hour to honor graduating seniors and their parents on Saturday, June 8, from 8:30 to 9:30 a.m. in the Living Center in the Home Economics Building.

Trees Memorialize Forestry Students

A memorial planting of 170 trees was dedicated this week in honor of 55 graduates of the School of Forestry who lost their lives in military service in World Wars I and II.

A plaque, mounted on a boulder, designates the memorial, which is on Curtin Road, near the flower gardens. Names of the men are also included in a plaque in the Forestry Building.

The dedication of the memorial was part of the two-day celebration of the 50th anniversary of the four-year curriculum in forestry at Penn State.

Dr. Hipsh Succumbs

Dr. Harold M. Hipsh, professor and head of the department of aeronautical engineering since Nov. 1, 1954, died at the age of 34 on Thursday, May 23.

An outstanding research man in the field of plane design and missiles, Dr. Hipsh served in a consulting capacity to government agencies in the field of missiles and had been concerned with plans for launching the man-made satellite as a part of the International Geophysical Year.

Items of Interest

Lorraine M. Gustafson, instructor in German, was one of nine who were initiated last week into the Delta Nu chapter of Delta Phi Alpha, national German honor society.

* * *

Staff members of the Ionosphere Research Laboratory who presented technical papers at the spring meeting of the International Scientific Radio Union, Washington, D.C., last week included: Robert E. Houston, Jr., Dr. John J. Gibbons, B.R. Rao, Dr. Edwin R. Schmerling, Dr. Sidney A. Bowhill, and Dr. Rajjeshwar Mittra.

* * *

Dr. W. R. Buessem, professor of ceramic technology, presented a paper on "Thermal Expansion of Ferrites at Temperatures Near the Curie Temperature" before the American Powder Metallurgy Association in Chicago recently.

* * *

H. Burton Musser, professor of agronomy, and John O. Pepper, professor of entomology extension, are authors of articles appearing in Plants and Gardens, a publication of the Brooklyn Botanic Garden. Musser's article is titled "Lawns Need Fertilizer" and Pepper wrote on "Injurious Insects on Lawn Grasses."

* * *

Dr. Simon Belasco, assistant professor of Romance languages, has been appointed to a national committee of the American Association of Teachers of Spanish and Portuguese. The committee was appointed to develop achievement tests in Spanish for high school students of various levels.

* * *

Dr. Eugen Skudrzyk, professor of engineering research, presented a paper on "The Correlation Function in Acoustics" at the meeting of the Acoustical Society of America in New York last week.

* * *

Dr. Joseph Jordan, assistant professor of chemistry, is chairman of a symposium on thermoanalytical titrimetry organized by the Division of Analytical Chemistry of the American Chemical Society in September. He will present a talk on research in the department of chemistry on "Enthalpy Titrations Involving Proton Transfer Processes."

Shamma Receives Research Grant

Dr. Maurice Shamma, assistant professor of chemistry, has been awarded the Du Pont Summer Research grant in the department of chemistry for 1957.

The recipient of the grant is chosen annually by an alumni committee of the department. The grant is for \$1,500 and Dr. Shamma will use it to support his research work on "Extensions of Diels-Adler Condensation."

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Saturday, June 8

Commencement Exercises, 10:30 a.m., Beaver Field. In case of rain, Recreation Building, 10:30 a.m. and 2 p.m. Dr. Dentlov W. Bronk, president of Rockefeller Institute for Medical Research, commencement speaker.

Home Economics coffee hour for graduates and parents, 8:30 a.m., Living Center, Home Economics Building.

ROTC commissioning program, 9 a.m., Schwab Auditorium.

Sunday, June 9

Seminars in College of Engineering and Architecture on Automation, Digital Computers, Nuclear Power Cycles, and Electrical Contacts begin. End June 14.

Monday, June 10

Intercession classes begin, 2 p.m.

Thursday, June 13

Alumni Institute and Class Reunions begin, continue through Sunday, June 16.

Friday, June 14

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. H. Tracy Hall, Director of Research, Brigham Young University, on "Synthesis of Diamond and Related Materials."

Forbes, Dr. Zoller To Retire July 1

Retirements of A. Harris Forbes, professor of electrical engineering, and Dr. Lucille L. Zoller, associate professor of Romance languages at the Altoona Center, will take place July 1.

Forbes was given the title professor emeritus of electrical engineering and Dr. Zoller the title of professor emerita of Romance languages by the Board of Trustees.

After serving as an instructor in electrical engineering for three years at Yale University, Forbes came to the University in 1921. He received his bachelor of philosophy degree and the degree of electrical engineering from Yale.

Dr. Zoller joined the faculty in 1931 as instructor in French at the Butler Center, after having taught several years in Western Pennsylvania schools, later transferring to the Altoona Center. She received bachelor of arts, master of arts, and doctor of philosophy degrees from the University of Pittsburgh.

2300 Will Receive Degrees Tomorrow

An estimated 2300 men and women will receive bachelor's, advanced, or associate degrees in Commencement Exercises tomorrow, with Dr. Dentlov W. Bronk, president of Rockefeller Institute for Medical Research, as commencement speaker.

The exercises will be held on Beaver Field at 10:30 a.m. if weather permits. In case of inclement weather, exercises will be held in Recreation Building in two ceremonies, one at 10:30 a.m. and a second at 2 p.m. Dr. Bronk will speak at both ceremonies in Recreation Building.

Faculty marshals will meet at 9 a.m. at Beaver Field to receive last-minute instructions. If the weather is unfavorable, they will meet at the same time in Recreation Building for the morning session and 1 p.m. for the afternoon ceremony.

If the exercises are held indoors, candidates for degrees in the Colleges of Agriculture, Chemistry and Physics, Engineering and Architecture, and Mineral Industries will participate in the morning exercises, including advanced degree candidates in those colleges and associate degree candidates in the College of Engineering and Architecture.

The candidates in the Colleges of Business Administration, Education, Home Economics, Liberal Arts, and Physical Education and Athletics will take part in the afternoon ceremony, including advanced degree candidates and associate degree candidates in the College of Business Administration.

Faculty members who will participate in the procession will assemble in War-ing Hall at 10:15 a.m. and proceed to Beaver Field at 10:20 a.m. In the event of rain, faculty of the four colleges in the morning ceremony will assemble at 10:15 a.m. under the south balcony of Recreation Building. Those in the afternoon procession will meet at 1:45 p.m. at the same location.

Altoona Center Staff Aids In Educational TV Series

Three members of the faculty of the Altoona Center will lecture this summer in the four-college cooperative television program to be telecast by WFBG-TV, Altoona, daily Monday through Friday for eight weeks.

Steven A. Adler, associate professor of engineering, will conduct sessions on mathematics; Albert S. Carney, assistant professor of chemistry will lecture on chemistry; and Jack S. Zubrod, assistant professor of botany, will handle sessions on the biological sciences.

Penn State, along with Indiana State Teachers, Lock Haven State Teachers, and St. Francis colleges, will provide a series of programs of an educational nature from June 24 to August 23. The programs will be telecast from 9 to 10 a.m. each weekday.

The program is being developed on an experimental basis to interest three groups of viewers. Viewers may pay a \$5.00 registration fee and receive lesson assignments and examinations, as they would in a classroom. Others may pay 25 cents for a syllabus, but will not receive lessons or examinations. The third group, it is hoped, will be made up of organized study groups which will meet at schools or homes, with examinations provided both before and after the series of programs.

All programs are informal, carrying no college credit. Robert E. Eiche, Altoona Center administrative head, and William H. Powers, director of arts and science extension, worked with WFBG-TV officials in setting up Penn State's participation in the program.

Dr. Walker To Get Honorary Degree

The honorary doctor of laws degree will be conferred on President Eric A. Walker by Lehigh University on June 10 when he delivers the commencement address. He is one of six men who will receive honorary degrees at the university's 89th commencement.

Four Engineering Seminars To Be Held Next Week

Four important seminars in the College of Engineering and Architecture will begin Sunday, June 9 and continue through Friday, June 14.

The Third Annual Automation Seminar, expected to draw 70 engineers and plant managers interested in the latest technical information on automation equipment and control systems for manufacturing, will begin Sunday with a welcome by Merritt A. Williamson, dean of the College. John F. Nielsen, chairman of the department of metallurgical engineering at New York University, will be the dinner speaker on Thursday, June 13. Chester Linsky, assistant professor of industrial engineering, is Seminar chairman.

Three other seminars will be held for the first time, including those on Digital Computers, Nuclear Power Cycles, and Electrical Contacts. Dr. Mary Lister, assistant professor of mathematics, is chairman of the seminar on Digital Computers, which is expected to enroll about 40 persons interested in industrial developments in the computer field. Dr. H. R. J. Grosch, head of computer applications of the General Electric Company, will be the banquet speaker on Friday.

The Electrical Contacts seminar, of interest to practicing engineers, physicists, and research scientists working in the area of heavy electrical contacts, will also be attended by about 40 persons. Ralph E. Armington, associate professor of electrical engineering, is local chairman of this seminar.

Edwin P. Nye, associate professor of mechanical engineering, is chairman of the Seminar on Nuclear Power Cycles. The seminar theme is the basic thermodynamic implications of power cycles in nuclear furnaces for energy production. Those in attendance will visit the University's research reactor.

Two other Engineering Seminars, on Creative Engineering and Electrostatic Precipitation, will begin next weekend.

Gift Supports Research

Support for research leading to increased metallurgical efficiency in mineral preparation plants has been obtained through a gift of \$250 by the Herbert Grunfeld and Ernest Grunfeld Trust of New York. The research will be conducted in the department of mineral preparation.

Cooperative Plan In Metallurgy Growing

Thirty-five organizations have joined the cooperative program in metallurgy and several other companies are expected to enroll this month.

Funds which member organizations contribute to the program are used for research, freshman scholarships, and other purposes determined annually. Plans for the coming year will be set at a meeting at the University on June 17.

Electrical Service To Be Interrupted

Interruptions in electrical service in campus buildings will begin Wednesday, June 12, in the program to change the electrical system from 2400 volts to 4160 volts, thereby providing improved service.

The changeover is being made because of the increased demands on the electrical generating and distributing systems.

The interruptions in service will last from one to six hours, or even more in case of accident or other emergencies.

The complete schedule of these interruptions, given so that faculty and staff members may plan their work accordingly, is as follows:

WEDNESDAY, JUNE 12

Mineral Science, Mineral Industries, Willard Hall, Osmond Lab., McAllister Hall, Walker Lab., Boucke Bldg.

FRIDAY, JUNE 14

Service Bldg., Foods Bldg., Mechanical Engineering Bldg., Thermal Plant, Electrical Engineering, Waring Hall, Recreation Hall, Nittany Lion Inn, Football Field, Ordnance Research Lab., Hamilton Hall, Thompson Hall, McKee, Irvin, Watts and Jordan Halls, General Extension, Caddy House, Water Tower.

SUNDAY, JUNE 16

Hetzl Union Bldg., Main Bldg., Armory Auditorium, Infirmary, Grange Dorm., Dairy & Creamery, Old Dairy Barn, Sheep Barn, Beef Cattle Barn, Agricultural Engineering, Tyson Hall, Nurses Home, Greenhouses, Spruce Cottage, Pine Cottage, Extension Conference Center.

MONDAY, JUNE 17

Sparks Bldg., Burrowes Bldg., Library, Carnegie Hall, Chapel, Pond Lab., Women's Bldg., Whitmore Lab., Forestry, Stock Judging Pavilion, Armsby Hall, Weaver Hall, Patterson Hall, Frear Lab., Buckhout Lab., Dr. Glenn's Residence, Agricultural Education.

TUESDAY, JUNE 18

Engineering Units A, B, C, D & E, President's Residence, Main Engineering, Petroleum Refining Lab., Simmons and McElwain Halls, Home Economics, Home Economics South, Elm Cottage, Frances Atherton Hall, White Hall, Temporary Classroom Bldg.

In addition to the above scheduled interruptions there will be a total of about 15 minutes each morning on the above dates.

WEDNESDAY, JUNE 26

N.Y.A. Houses, Watson Project, Wells at Thompson Farm, New Dairy Barns, Farm No. 3, Fruit Storage, Animal Disease Lab., Farm No. 10, Soil Erosion Project.

FRIDAY, JUNE 28

Pollock Dorms, Nittany Dorms., Nittany Heating Plant.

MONDAY, JULY 1

Poultry Plant, Observatory, Ice Rink, Reactor, Home Management Houses, Sewage Plant, Turkey Farm, Insectary.

Hassler To Instruct In Army School

Dr. Warren W. Hassler, Jr., instructor in history, will be one of five civilian instructors in the joint Ohio State University-Department of the Army course in American military history in August.

Military officers from all parts of the country and Alaska, Hawaii, and Puerto Rico, who will instruct in ROTC units, will be students in the course, which is sponsored by the Army's Continental Army Command.

Dr. Hassler is author of "General George B. McClellan—Shield of the Union," and is presently offering an advanced course in American military history at the University.

Dr. Furbay To Address Aviation Workshop

Dr. John H. Furbay, author, educator, and world traveler, will be the dinner speaker on July 1 opening the Aviation Education Workshop.

Several times a delegate to UNESCO conferences, Dr. Furbay has participated in education missions to India, Siam, Formosa, Iran, Iraq, and Lebanon. He is the author of many books, including "World Without Strangers". He has studied both in this country and abroad and has served on faculties in various countries. He was president of the College of West Africa from 1935 to 1938.

The Workshop is sponsored by the department of education in cooperation with the department of air science, Civil Air Patrol, Pennsylvania Aeronautical Commission, and the Air Force Association. The program is designed to provide teachers and school administrators with opportunities to acquire knowledge, experience, and a fuller understanding of aviation and its impact on modern society. The program runs from July 1 to July 20.

Summer Art Program Brings Four Visiting Teachers

Hobson Pittman, John and Mrs. Taylor, and Dr. Jules Heller will join the regular faculty in the University's summer program in art during the main session from July 1 to Aug. 10. Some art education courses have also been scheduled for both inter-session and post-session.

Pittman has been conducting summer oil painting classes on campus for more than 25 years. He is director of art at Friends Central School, Overbrook, Pa.

John Taylor and his wife, who is known as Andree Ruellan, both painters at Shady, New York, will assist Pittman and also conduct work in watercolor painting.

Dr. Heller, associate professor of fine arts at the University of Southern California, will conduct art education work in graphic arts and crafts.

The members of the regular faculty who also teach during the summer program include Dr. Kenneth R. Beittel, Yar G. Chomicky, Dr. Harold E. Dickson, Sybil D. Emerson, Viktor Lowenfeld, Dr. Edward L. Mattil, Miriam E. McGrew, Dr. Paul F. Norton, and Dr. Winston R. Weisman.

Company Contributes To Student Expenses

Schroeder Brothers, Inc., of Pittsburgh, have contributed \$50 to apply to the expenses of students who attended the Cleveland Coal Show last week. This is the second year the company, which specializes in equipment used in the mining industry, has made the contribution. It was received by A. W. Asman, head of the department of mining.

Items of Interest

W. E. Meyer, professor of engineering research, presented a paper on Wednesday at the national summer meeting of the Society of Automotive Engineers, at Atlantic City. The paper was titled "European Developments in Small Aircooled Engines."

An article in the April issue of Laryngoscope on "Confirmation of Normal Discrimination Loss for Speech on C.I.D. Auditory Test W-22" was written by Dr. John F. Corso, associate professor of psychology. The article points out that a person's sensitivity to pure tones provides only a limited amount of information about his auditory and perceptual systems.

George Pappas, instructor in art education, and Dr. Kenneth Beittel, associate professor of art education, both exhibited ceramic articles in recent exhibitions. Pappas's were shown at the 5th annual Miami National Ceramic Exhibition at the University of Miami and those of Dr. Beittel at the 12th National Decorative Arts Ceramics Exhibition at Wichita, Kansas.

Dr. Donald W. Bleznick, assistant professor of Romance languages, has been appointed to a national committee of the American Association of Teachers of Spanish and Portuguese. The committee will attempt to develop achievement tests in Spanish for high school students of various levels. It was incorrectly stated in last week's issue that Dr. Simon Belasco had received this appointment.

Paul Beaver, supervisor of management training, addressed civilian and naval management personnel recently at the Naval Air Development Center, Johnsville, Pa.

Six Resignations Announced

Resignations of six faculty members have been announced.

They include: Dr. John R. Kinney, associate professor of mathematics, effective June 30, to accept a position with industry; Francis P. Finlon, associate professor of engineering research in the Ordnance Research Laboratory, Mar. 15.

Dr. Hisao Kuroya, and Dr. M. Saleh Ahmed, both research associates in physics, effective May 17 and Mar. 19, respectively, to return to Japan and Egypt, respectively.

Ruth E. Mangus, extension home economist in Delaware county, and Jane L. Ifft, extension home economist in Indiana county, both effective May 15; and Evelyn M. Heiser, extension home economist in Juniata county, effective May 31.



County Agent Retired After Record Service

When he retired on April 30, Bert Straw had been Potter County agricultural agent for 41 years, had worn out eighteen cars in traveling more than a million miles in his job, and had made a host of friends.

Less than a month after he had received his diploma at Penn State in 1916, Bert became one of the pioneers in the county agent field. His 41 years of service constitute a record in Pennsylvania and possibly the country as a whole. They called him the "dean" of agriculture in Potter County, and credited him for many of the changes in the farming of the county.

Straw helped introduce vegetable canning crops—snap beans, peas and cauliflower were unknown in the county in 1916—and showed the Potter County farmers how to improve their

Ogontz To Expand Nurses' Training

Additions to the facilities at the Ogontz Center will be made this summer to permit expansion of the Center's program of academic training for student nurses of the Philadelphia area.

Five additional hospitals will take part in the Ogontz program, including Hahnemann, Episcopal, Frankfort, Northeastern, and Abington. Nearly 200 additional student nurses at these hospitals will receive basic academic training at the Center.

Jane Brinton, coordinator of nursing education for the University, said that a new microbiology laboratory will be built at the Center.

Center Freshman To Receive Aid

A \$450 scholarship to be awarded to an entering freshman in the associate degree program at Hazleton Center has been donated by an engineering firm, Door-Oliver, Inc., for the coming academic year.

potato crops. He organized three dairy herd improvement associations, and now some of the herds in the County are among the top producers in the State. He worked in the poultry and livestock field, organizing a cooperative wool pool and lamb auction.

Bert has had a hard time living down his reputation as a wrestler, even though the one bout which people still talk about in the area took place 40 years ago. In college, he had played some football and done some wrestling, although earning no letters. His prowess as a wrestler, however, became known at Coudersport. In 1919, during the town's Old Home Week celebration, one of the midway attractions featured a professional wrestler, 6 ft. 4 inches tall, and weighing 220 pounds. He offered the usual challenge to anyone who cared to try his skill at staying eight minutes with him.

Unfortunately for Bert, who weighed only 158 pounds, the townspeople still remembered his wrestling experience, and all but forced him to accept the challenge.

In a preliminary event the first night, Bert stayed the eight minutes with the "giant" by making use of his superior speed. The next night, the two met in what was to be a decision match. Bert would not be able to run away and hide. He didn't need to anyhow—he pinned his opponent in two minutes, and became an even bigger hero to his Potter County neighbors.

His athletic endeavors may have had some effect on his acceptance by the farmers of the area, but it has been his good common sense, willingness to undertake any task, and friendly nature which helped him to his success. He is a member and past president of Coudersport Rotary Club, past president of the Pennsylvania Association of County Agricultural Agents, and for 50 years a member of the Grange.

Dr. Harms Named To Home Ec Faculty

Dr. Irene E. Harms has been appointed professor of child development and in charge of infant development group in the College of Home Economics, effective Oct. 15.

Dr. Harms is presently doing research at the Iowa Child Welfare Research Station and teaching in the School of Social Work at the State University of Iowa. A native of Washington, Dr. Harms received her bachelor's degree from Washington University in Seattle, and her master's and doctor's degrees from the State University of Iowa.

Sorority Establishes Two Scholarships

Two \$200 scholarships in memory of a coed killed a year ago in an automobile accident has been established by Alpha Chi Omega sorority, to be awarded annually to students of at least second semester standing in the home economics curriculum.

Romance Language Test Scheduled

Candidates for doctor of philosophy degree who wish to take the written examination in French, Italian, or Spanish given on July 29 should go to office of the department of romance languages, Room 300 Sparks Building, on the day of registration for the main session of Summer School, July 1, to take the oral test, unless they have already done so.

These will be the last oral tests to be given for the next written tests.

Hyslop Book Selected For Distribution By Book Club

The book by Lois and Francis Hyslop, "Baudelaire: A Self-Portrait," has been chosen by the Readers' Selection Book Club for distribution by its members. The book was recently published by the Oxford University Press.

Mrs. Hyslop is associate professor of Romance languages and Mr. Hyslop is associate professor of history of art and architecture.

An earlier publication of the Hyslops, "Baudelaire on Poe," was included by Nation magazine in its list of "Selected Books of 1952."

Anderson Cited By Bee Journal

Dr. Edwin J. Anderson, professor of apiculture, has been awarded a certificate of merit by the American Bee Journal for "outstanding service to the beekeeping industry and for basic contributions to beekeeping literature from which the industry will derive perpetual benefit."

A graduate of Penn State, Dr. Anderson has contributed more than 100 articles in professional journals in his field. He has devoted 31 years of teaching and research at Penn State to bee culture and to processing of honey.

Freshman Admissions Reach Total of 3205

Freshman admissions for the fall semester as of May 31 had reached the total of 3205, with 2015 men and 1190 women. Included in the total are only those who have paid the required admission fee.

The totals in the various colleges are as follows:

	Men	Women	Total
Agriculture	178	61	237
Business Adm.	169	40	209
Chem. and Phys. ..	315	42	357
Education	80	397	477
Eng. and Arch.	933	14	947
Home Economics ..	22	190	212
Liberal Arts	157	401	558
Mineral Industries .	143	2	145
Phys. Ed. and Ath. .	18	43	61
Totals	2015	1190	3205

Admissions to the Colleges of Engineering and Architecture and Business Administration have been closed for some time. It is the experience of the University, however, that a number of students who have already paid their admission fee drop out before enrolling in the fall.

Grant Aids Study On Brush Control

The American Chemical Paint Co., Ambler, Pa., has provided a grant of \$800 to aid in a five-year old research project in woody brush control in the School of Forestry.

The project was started to determine effects of brush control in power line game usage in the treatment areas; and the effectiveness of original spray treatments with and without subsequent follow-up sprays.

Dr. William C. Bramble, acting director of the School of Forestry is supervising the project.

Sweet Corn Studies Receive Assistance

A two-year grant of \$5,000 by the Eastern States Farmers' Exchange will aid in research to improve the yield and quality of sweet corn through better plant nutrition.

Dr. Cyril B. Smith, associate professor of plant nutrition, will direct the study. The ESFE will provide an assistantship for a graduate student to work on the project.

Sweet corn is the most important vegetable crop in the State on an acreage basis. Little research has been done to date on its nutritional requirements.

Dort Will Make Gold Study

Dr. Wakefield Dort, Jr., assistant professor of geology, will make a search for extension of a \$4,000,000 gold placer deposit in Northern Idaho this summer.

Under the auspices of the Idaho Bureau of Mines and Geology, Dr. Dort will map an old river system in the state, where particles of gold have been recovered from mines during the past century.

Also, under a grant from the Geological Society of America, Inc., he will study areas in the Northern Rocky Mountains where mountain-top glaciers existed during the Great Ice Age, to determine the former extent of the glaciers.

Grant Made For Study In Mineral Preparation

A study of 15 elements—called rare earths—will be conducted in the department of mineral preparation with the aid of a grant of \$5,000 from the Molybdenum Corporation of America. The company is one of the largest miners and processors of rare earths in the country.

The work will be under the direct supervision of Dr. H. B. Charnbury, head of the department of mineral preparation.

The problem to be considered is the method of separation and isolation of the various components of the rare earths, which are becoming increasingly important in industrial use.

Report from the Registrar

WITHDRAWALS

(Campus)

- 4 Carnack, Carole Ann, Psy, May 8
- 4 Clark, Harold J., Jr., BA, May 13
- 4 DeBalko, George J., Sci, May 6
- 6 Horgas, Joseph J., CE, May 8
- 2 Miller, Walter James, ME, May 14
- 4 Moore, James Richard, DIR, May 6
- 4 Prysbeck, John J., DIR, May 13
- 4 Slimak, Ronald D., CE, May 14
- 4 Sonen, Stewart Francis, BA, May 15
- 6 Stekol, David G., A&L, May 9
- 2 Bateman, Franklin Lee, CE, May 21
- 4 Burd, Stanley L., ChE, Apr. 26
- 4 Burkhardt, Charles Adam, PNG, May 21
- 3 Cavanaugh, Anna Marie, DIR, May 20
- Sp Ellis, Thomas G., BA, May 6
- 7 Fucho, Joseph W., A&L, Jan. 15, 1953
- 2 Helvig, Thomas P., Coun, May 21
- 3 Hoover, Monna Ross, DIR, May 10
- Sp Krape, Kathryn M., Apr. 25
- Kreider, John Richard, CE, Apr. 30, 1955
- 5 Kurz, Henry W., DIR, Apr. 16
- 2 Lohr, Darwin E., Coun, May 22
- 2 McCall, Jack Robert, DIR, May 17
- 2 Monachino, Francis X., PhEd, Apr. 1
- 2 Newman, Robert H., CHE, May 17
- 5 Nowicki, Ronald E., DIR, May 23
- 8 Thorne, Ralph Weymouth, A&L, May 21

WITHDRAWALS

(University Centers)

- Associate Degree Program
- 2 Ford, Roderick Dean, DT, May 4
- 2 Bridges, Louis Edward, DDT, May 6
- Mon: Alto
- 2 Buzalka, John M., For, May 20
- Bachelor Degree Program
- 2 McDonald, Maurice John, BA, May 10
- 1 Davis, Richard J., AH, May 2

Change of Names

Hsu, Lichu from Chen, Lichu
Hoyman, Michael Boyer from Hoyman, De-
Arle Boyer
Hsu, Lichu from Chen, Lichu
The following reasons were given for with-
drawing: Personal 16, Scholastic 8, Illness 5,
and Other 3.

Children's Dramatics Course To Be Given

The department of theatre arts will offer a course in the main Summer Session, from July 1 to August 10 titled "Creative Dramatics for Children," in which youngsters of the State College area will be given instruction in the drama.

The course will enroll children in the 8-11 year age group, in two sections. One section will be limited to youngsters 8 and 9 years of age and a second section for those 10 and 11 years of age. The children will extemporize dialogue and action, rather than play from written or memorized materials.

Dr. Walter H. Walters, head of the department of theatre arts, will teach the course.

Parents who wish to enroll their children in the course should write to Dr. Walters, stating the age of the child. Priority will be given in the order in which applications are received. Only those who will be able to attend the entire six-weeks period should enroll. There is no charge for the course.

The younger age group will meet daily from 9:30 to 10:50 a.m., and the older group from 11:00 a.m. to 12:20 p.m. in Schwab Auditorium and the Little Theatre in Old Main.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Alumni Weekend Begins Today

A panel discussion on "1984: Utopia or Chaos" will feature the Alumni Institute program today as several thousand alumni will register for various activities, including class reunions.

The panel discussion will be held at 10:30 a.m. in the Assembly Room of the HUB. Dr. William G. Mather, head of the department of sociology, will moderate the discussion. Panel members will include: Dr. Ruth Ayres, professor of clothing and textiles; Dr. Henry A. Finch, professor of philosophy; Dr. Harold I. Tarpley, professor of electrical engineering; Dr. James E. Wright, associate professor of genetics.

The Institute will continue this afternoon with lecture sessions at 2 p.m. and at 3:30 p.m., all in Osmond Lab. The lectures at 2 p.m. are:

"Are Your Kids Ready For College," by Dr. C. O. Williams, dean of Admissions.

"Cultural and Anthropological Backgrounds of the Middle East," by Dr. Frederick A. Matson, professor of archeology.

"Horsepower and Your Automobile," by N. R. Sparks, head of the department of mechanical engineering.

"Those Pesky Viruses," by Dr. J. S. Boyle, associate professor of plant pathology.

"What? Modern Art? Why?" by Edwin W. Zoller, associate professor of art.

"Live Longer and Like It," by Dr. William M. Smith, Jr., professor of family relationships.

Lectures to be given at 3:30 p.m. include:

"Funny Business: The Inside Story of the Comic Strip," by Louis H. Bell, director of public information.

"Who Wrote That Tune," by Hummell Fishburn, head of the department of music.

"The Art of Comedy," by Dr. Walter H. Walters, head of the department of theatre arts.

"The Ionosphere," by Dr. Sidney A. Bowhill, assistant professor of electrical engineering.

"Why Waste Film?" by Robert S. Beese, assistant in photography in Agriculture.

"The New Theology," by the Rev. Luther H. Harshbarger, University chaplain.

Other events on the two-day Alumni Weekend program include informal class parties and class banquets, the all-class luncheon, alumni parade, presentation of distinguished alumni awards, presentation of the alumni fund gift to the University, President Eric A. Walker's report to the alumni on the state of the University, dedication of new women's residence halls, all-class square dance, campus bus tours, and alumni golf tournament.

Newspaper Man Named Director Of Journalism

H. Eugene Goodwin, Washington, D.C. newspaper man, has been appointed director of the School of Journalism to succeed I. W. Cole, who has resigned to become dean of Medill School of Journalism at Northwestern University.

Goodwin is a 1946 graduate of the University of Iowa with a master of arts degree from the same institution in 1947. He is 34, and the father of four children.

On the staff of the Washington Star, after experience in radio and various newspapers, Goodwin has been a general reporter covering news in the District of Columbia and Maryland, Sunday editorial writer, and assistant state editor for Maryland and Virginia. He is a member of the American Newspaper Guild, accredited to the press galleries of the U. S. Senate and House, former president of the local Citizen's Association, and former trustee of the local elementary school. He is also a member of Sigma Delta Chi and Omicron Delta Kappa.

Bernreuter Made Special Assistant To President

The Board of Trustees has approved a change in status for Dr. Robert G. Bernreuter, from professor of psychology and director of the Division of Counseling to professor of psychology, director of the Division of Counseling, and special assistant to the President for Student Affairs.

Dr. Bernreuter will be liaison officer for President Eric A. Walker and ex officio chairman of the administrative committee on student affairs.

Hostetter Named Vice President

Samuel K. Hostetter, treasurer of the University, has been named vice-president for finance and treasurer, effective June 7. Mr. Hostetter, who has served the University since 1908, will retire Oct. 1 with the title of vice-president emeritus.

Woman Of The Year To Be Honored

A "Penn State Woman of the Year" will be honored annually beginning in June, 1958, at the Alumni Institute.

A proposal which recommended the criteria for the selection of the person to receive the award was approved by the Board of Trustees last week.

All women who have been regular full-time students at Penn State, whether graduated or not, will be eligible to receive the award, with the exception of members of the Board of Trustees currently serving on the Board or current members of the University staff.

The award is being made to recognize and salute the achievements of outstanding former women students and to inspire present students. An inscribed scroll and a medallion will be presented to the winner.

A screening committee will be appointed by the President to examine and evaluate all recommendations and present a panel of five names to the Board of Trustees each year. The Board will make the final selection.

Trustees Elected By Societies

Delegates of agricultural and industrial societies elected one new trustee and re-elected three others to three-year terms to the Board of Trustees last week.

G. Albert Shoemaker, 1923 graduate of the University and vice-president of the Pittsburgh Consolidation Coal Co., was elected to fill a vacancy resulting from the death last year of John H. Forker, of Harrisburg.

Re-elected were Albert J. Nesbitt, Philadelphia, Kenzie S. Bagshaw, Hollidaysburg, and Fred E. Bittenbender, Shickshinny.

H. Johnston Gillan, of St. Thomas, was re-elected for a two-year term. Gillan has been serving since last year when a tie resulted from the voting.

Senate Minutes

Minutes of the Meeting of June 4, 1957

The University Senate met at 4:10 p.m. on Tuesday, June 4, 1957, in the Assembly Room of the HUB with President Eric A. Walker presiding. The minutes of the May 2, 1957 meeting were printed in the Faculty Bulletin for May 10, those of the Special meeting on May 16 on May 24 and 31, and those of the Special meeting on May 23 on May 31. The minutes of the three meetings were approved as printed. One hundred twenty-eight senators signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: H. S. Brunner (W. F. Hall), R. T. Oliver (J. F. O'Brien), C. H. Blanchard (T. K. McCubbin), J. S. Cryder (M. R. Cannon), J. J. Schanz, Jr. (L. F. Haller), M. Chiappetta (L. C. Hunt), and F. W. Pickert (H. D. Bartlett).

A letter from H. K. Schilling, Dean of the Graduate School, stated the following persons had been elected as senators for the term 1957-1959: *Graduate School*: M. S. Gjesdahl, A. W. Hutchison, G. K. Nelson, T. S. Oakwood.

By motion, the Council of Academic Deans recommended that the Senate consider holding its regular monthly meeting during 1957-1958 in the evening instead of at 4:10 p.m.

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report in three sections. Sections I and II were distributed with the agenda as Appendix "A" and Appendix "B", and Section III was distributed at the meeting. He made the following corrections to Sections I and II:

Section I

Page 7. Music 429-432. Add—Change pre-req. to 6 credits of Music 21 and/or Music 28.

Page 15. Mineral Preparation Engineering curriculum. Fall Semester. Change. Mng. 473, Materials Handling I, 3 crs. to—Mng. 471, Mine Mechanization, 3 credits.

Section II

Pages 12 and 13. Delete the Old Curriculum Change in Mining.

Page 13. Delete the Old Course changes in Mng. 471 and 472.

Mr. Shelley moved the adoption of the report as corrected. The motion was seconded and passed. The report is on file in the office of the secretary.

W. E. Kenworthy, for the SENATE COMMITTEE ON STUDENT AFFAIRS, presented the report which was distributed with the agenda as Appendix "C" for the information of the Senate. The report is on file in the office of the secretary.

Mr. Schilling, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report which had been distributed with the agenda as Appendix "D" re: General Education Requirement of Competence in Quantitative Thinking and asked that the "redraft" which was mailed to the senators be substituted. Mr. Schilling moved the adoption of the "redraft" and the recommendations contained therein. The motion was seconded. R. G. Stoner moved that Recommendation 1 be amended as follows:

1. All students who are candidates for baccalaureate degrees must, before being admitted to junior standing, present evidence of skill in computation and the ability to think quantitatively as aids to organized, productive reasoning. This evidence may be the passing of an examination designed for this purpose, or the completion of such course work in specified areas as may be certified for this purpose by the Committee on Quantitative Thinking.

The motion was seconded and passed. E. H. Freund moved that recommendation 5 be amended by changing the third word in the first line from "after" to "before." It was pointed out that this might interfere with the Senate Committee on Admissions, and since they are studying the matter and will bring in a report in the fall, Mr. Freund withdrew his motion. After further discussion the motion to adopt the recommendations concerning the General Education Requirement of Competence in Quantitative Thinking, as amended, was passed. The entire report of the Committee on Educational Policy as adopted follows: *Recommendation of the Senate Committee on Educational Policy Regarding General Education Requirement of Competence in Quantitative Thinking*

Redraft of Appendix D of Senate Agenda for June 4, 1957, in conforming with Senate opinions on this subject expressed in the meeting of Thursday, May 23, 1957.

The report of the Subcommittee on General Education (See Senate Agenda for October 7, 1954) recommended to the Senate that the University require all students who are candidates for a baccalaureate degree to show competence of various kinds before being admitted to junior standing. The Senate accepted this recommendation in principle, and voted that it be put into practice gradually, on an experimental basis, beginning with the skills in the use of English and in quantitative thinking.

We have had a subcommittee (See Senate agenda for February 10, 1955) considering how this action of the Senate could be implemented. As the result of their findings we are making definite recommendations.

It should be understood that the adoption of these recommendations is tantamount to establishing on a University-wide basis a new kind of graduation requirement, one specified in terms not of credits or course requirements, but of a particular kind of competence which students in all fields shall achieve. The establishment of this standard should be widely publicized throughout the state, so that parents and secondary school teachers and administrators shall be aware of it.

We are making these recommendations fully realizing that we shall encounter real problems as the program develops. We recognize, too, that it will entail a considerable amount of educational experimentation before examinations, remedial work and advising in this program can be adequate. We hope the Senate will accept this proposal in the same spirit, recognizing that the only way to solve such problems is to proceed experimentally.

Recommendations:

1. All students who are candidates for baccalaureate degrees must, before being admitted to junior standing, present evidence of skill in computation and the ability to think quantitatively as aids to organized, productive reasoning. This evidence may be the passing of an examination designed for this purpose, or the completion of such course work in specified areas as may be certified for this purpose by the Committee on Quantitative Thinking.
2. The minimum level of competence to be required for junior classification shall be that envisioned by the Subcommittee on Quantitative Thinking in their report of January 5, 1956. (See quoted on page two). (It is hoped that after a few years of experimentation higher levels of competence can be required.)
3. The test to measure such competence shall be devised or selected by the Bureau of Academic Research and Services in cooperation with, and with the approval of a special Senate Committee on Quantitative Thinking. (We recommend the establishment of such a committee.)
4. The special Senate Committee on Quantitative Thinking, shall in consultation with the Bureau of Academic Research and Services, be responsible for determining the passing examination scores for junior classification, or for any other aspects of the administration of this examination in which academic standards and the academic calendar are involved. It shall report annually to the Senate on the standards it is maintaining, and on the extent to which the educational objectives envisioned here are being realized; and at least biennially it shall seek the Senate's approval of these standards.
5. All freshmen after admission to the University shall be given an examination in elementary computation and quantitative thinking. Those making low scores shall be counselled on how, in view of any weaknesses this examination may disclose, they may or should prepare themselves to meet this standard for junior classification. (It is assumed that students deemed incapable of meeting this standard will not be admitted to the University in the first place.)
6. The University shall make available as a part of its program in general education instruction designed to develop the skills and abilities contemplated in these recommendations. (It is assumed that courses now available in mathematics and the sciences will meet the needs of many students in this area of competence.)
7. If special instruction needs to be provided for some students, the cost shall be borne by the students concerned.
8. The results of these examinations shall be reported back to the high schools from which the students were graduated.
9. The Senate shall request the University Administration to establish facilities and procedures for implementing these policies and regulations so that they may become effective as soon as is practical.

Respectfully submitted,
Committee on Educational Policy

Quoted from the January 5 1956 report of Subcommittee on Quantitative Thinking
The subcommittee, after initially observing that each subject matter specialty has its own

threshold of competence in quantitative thinking, and they are without doubt widely separated, finally reached the conclusion that every student, regardless of his field of special interest, should be able to:

1. Use whole numbers, common fractions, decimals, and percentages effectively.
2. Solve simple verbal problems in arithmetic and mensuration.
3. Estimate an answer before actual computation.
4. Apply arithmetic to the solution of personal, home, and community problems.
5. Use letters to represent numbers.
6. Solve simple equations.
7. Interpret simple charts and graphs.
8. Round off numbers.
9. Use ratios.
10. Use simple measuring instruments such as a ruler or scales.
11. Make unit conversions.

Mr. Schilling presented the report of the Subcommittee ON THE SUPERIOR STUDENT which was distributed with the agenda as Appendix "E" and moved its adoption. The motion was seconded. Miss Ruth Ayres moved that recommendation number 4 be amended to read:

That the office of the Dean of Admissions make the necessary arrangements to permit special registration of superior students, either in an early registration period or by such other means as this office may devise to meet the goals of this program. The committee feels that early registration would constitute an important recognition for all students who receive this privilege; it is one of the steps toward recognition of a student's scholarly attainment, and hence is a step toward creating a more scholarly atmosphere on this campus.

The motion was seconded and after discussion was passed. The motion to adopt the report of the Subcommittee on the Superior Student as amended was passed. The complete report, as adopted, follows:

RECOMMENDATIONS OF THE COMMITTEE ON EDUCATIONAL POLICY

The Committee on Educational Policy hereby transmits to the Senate the report of its Subcommittee on the Superior Student which is attached. It recommends that the Senate adopt it and request the University Administration to implement it as soon as possible.

We are asking the subcommittee to continue its work and to prepare recommendations relative to upperclassmen.

Introduction

On April 30, 1956, the Educational Policy Committee submitted to the Senate the first report of its subcommittee on the Superior Student. This report, dated April 3rd on the mimeographed form, emphasized as the three fundamental programs for superior students, enrichment, recognition and acceleration.

This current semester the subcommittee was reactivated and has undertaken to develop first steps to put the programs in action in accordance with the principles stated in the first report. This work has proceeded on the basis that:

1. It is feasible to select a group of superior students who are intellectually competent to work in these programs.
2. These extremely able students would represent roughly 10% of the students who come to Penn State, including the few who fall in the genius category.
3. It is possible to develop a series of programs which would benefit such superior students within the framework of existing programs, and those contemplated by the University.

The Committee considers the following to be primary among the important characteristics of the superior student; ability to learn by reasoning as well as by memory, and the capacity to respond to training for independent work.

Goals

Programs for these students should stimulate the individual to more intensive and effective intellectual activity, help him to learn the intrinsic satisfactions of such activity, and develop responsibility commensurate with creativity.

We believe that these programs should be built to encourage scholarly endeavor, and that they should be based upon a voluntary program of opportunities and we believe that they should not encourage avoidance responses.

On the basis of these tenets, we believe that this group of students would greatly benefit by programs which would:

1. Bring them into contact with individuals, both on and off campus, who stimulate the students toward the above approaches.
2. Facilitate placement of each student according to his ability in subject matter areas.
3. Provide opportunities for free discussion and seminar-type work with upperclassmen, graduate students and teachers.
4. Give course work, where appropriate, to: a. Develop an intellectual climate in

which the broad implications of basic facts and principles are emphasized.

- b. Give the student an opportunity to learn the techniques of independent study and thought.
- c. Stimulate the student to develop the research approach to learning.
- d. Develop a sense of responsibility commensurate with creativity.

Basis of Proposed Action

The Committee believes that different programs are needed for each academic year. As a point of departure, the detailed work this spring has concentrated on the *Freshman Year* and the recommendations at this time deal primarily with planning for this group. However, the Committee believes that a series of programs for the other academic years is needed.

The Committee finds that in order to meet these goals, programs and action will be necessary at several administrative levels; among these are the Counseling Service, the University Scheduling Office, the offices of the Academic Deans in the several Colleges, and the Departments. It is felt that departments or groups of departments should be responsible for the necessary academic programs. At the present time we expect that academic programs would be developed primarily within the frame-work of existing courses (and later within the frame-work of inter-departmental courses on which work is now being done).

Specific Recommendations

To enrich both the contacts and course content for these individuals we recommend:

1. That the Counseling Service, by such means as they shall determine:
 - a. Select, evaluate and refer that group of freshmen students best qualified to participate in these programs to the Deans of the Colleges in which the students are registered.
 - b. Aid, and counsel such students.
2. That Deans of the Colleges in which the students are registered initiate additional orientation programs for these students.
3. That Deans of the Colleges in which the students are registered, in cooperation with departments, assign these students to advisers carefully informed of the goals and nature of this program and of the characteristics of the students selected.
4. That the Office of the Dean of Admissions make the necessary arrangements to permit special registration of superior students, either in an early registration period or by such other means as this office may devise to meet the goals of this program. The Committee feels that early registration would constitute an important recognition for all students who receive this privilege; it is one of the steps toward recognition of a student's scholarly attainment, and hence is a step toward creating a more scholarly atmosphere on this campus.
5. That the Deans of the Colleges in which the courses are given encourage departments to initiate specific programs for this group of students, including special sections for their freshman courses; that teachers for these courses be selected for their interest in the program, and that special orientation be given these teachers.

We recognize further that there are many factors which might be considered in the identification of the superior student who has had one or more semesters on campus, and the committee hopes to make recommendations in the future in regard to this problem and as to programs for these students.

Committee: D. H. Ford, P. S. Klein, J. R. Mentzer, R. B. Patrick, T. Wartik, J. E. Wright, and Ruth W. Ayres, Chairman

R. G. Bernreuter, Chairman of the SENATE COMMITTEE ON COMMITTEES, said the report would be distributed by mail.

R. B. Saylor, Chairman of the SENATE COMMITTEE ON CALENDAR, gave the following progress report:

CALENDAR COMMITTEE PROGRESS REPORT

This past year the Calendar Committee has spent much time on the problem of a calendar rearrangement which would result in a greater utilization of facilities in the summertime in order to handle better the expected large enrollment increases of the next few years. It was only at the Committee's last meeting, late in May, that it was able to arrive at what it considered a satisfactory method of attacking the problem. Since the details could not be worked out in time for this meeting of the Senate, a definite proposal is being prepared for the first Senate meeting in the fall.

The basic proposal calls for a plan whereby a limited number of departments would provide a 9 to 12 weeks summer program in parallel with the existing summer program starting in 1958. The new programs would be planned with the thought in mind that the students following them would graduate in

three years. To start with, at least, the administration of all courses involved would be handled through the Dean of Summer Sessions.

This plan is being called to the attention of the Senate at this time so that administrators may have this plan in mind in making plans for the 1958 summer sessions.

Submitted by

R. B. Saylor, Chairman

A. W. Hutchison, Chairman of the SENATE COMMITTEE ON EXTENSION POLICY, presented the report which was distributed at the meeting, and moved that it lie on the table for action at the first meeting in the fall. The motion was seconded and passed. The report which is on file in the office of the secretary included the following recommendations:

1. It is recommended that the University Senate cease approving courses for extension and that the symbol "x" be dropped from the University catalogue and the Graduate School Announcement, it being understood that any course approved by the Senate may at the discretion of the department offering the course, be given off-campus, subject to the same type of University control which operates for on-campus courses.
2. It is recommended that the present policy of distinguishing between campus and off-campus work on student transcripts and registration records be extended to include all cases but with some simplification of designation.

At present "off-campus" work is identified in the following cases: correspondence study by the symbol "C"; off-campus thesis research by the number "610"; extension courses by the symbol "X"; transfer credit by the name of the institution; center credit by the name of the center; field trips, summer camp and practice teaching by the title of the course.

The following types of off-campus work which are not identified in any way as being "off-campus" have come to the attention of the Committee: internships in hospitals and public school; projects done in the public schools; off-campus research not related to thesis work.

It is proposed that correspondence study, transfer credit, center work, field trips, summer camp, and practice teaching continue to be designated as at present but that all other off-campus work be designated on registration forms and student records by an appropriate symbol, being defined to signify "off-campus."

In accord with this recommendation the number 610 would no longer be necessary nor would extension courses be differentiated from other off-campus work.

In the sections above "campus" is defined to mean the University Park campus and other locations which have been officially approved for specific types of residence work.

3. It is recommended that the term "residence" as applied to degree requirements be defined in a less ambiguous manner than at present and that faculties be invited to recommend a statement of degree requirements in terms of the new definition. The committee will present suggestions to this end at a later date.

UNFINISHED BUSINESS

Miss Ayres, Chairman of the SUBCOMMITTEE ON THE SUPERIOR STUDENT, presented the results of a poll taken with all departments after the last Senate meeting relative to EXEMPTIONS FROM FINAL EXAMINATIONS, and moved that Rule 0-2 of the Regulations for Undergraduate Students 1956-57 be amended as follows:

When a teacher has so organized a course that he can definitely determine the quality of the performance of his students, he may with the approval of his department head, be permitted to exempt students from the final examination on sufficient evidence that the students have attained a level of performance well above the average, but in no case below a B plus grade level. When such exemptions are to be made available by a teacher, he shall announce the plan at the beginning of the course and shall announce the grade level at which he plans to make exemptions.

The motion was seconded and passed.

D. V. Josephson, Chairman of the SENATE COMMITTEE ON ACADEMIC STANDARDS, presented a report regarding Implementation of the New P-10 Rule. This report which was distributed at the meeting is as follows:

Because of misunderstanding regarding the role of the Division of Counseling at the time of revising present rule P-7 (New Rule P-10) the Committee on Academic Standards wishes to make the following recommendation to the Senate:

That rule P-10 (adopted March 7, 1957) as it relates to the activities of the Division of Counseling, be suspended until January 1959, with the understanding that

the Director of Counseling may at that time make recommendations to the Senate relative to the time limitations for students enrolled in the Division of Counseling.

It is the feeling of this Committee that the two semester limitation, now provided in rule P-10, is desirable, but somewhat unfair to the student who enrolls as a first semester Freshman in the Division of Counseling. In view of the rather strict grade point stipulations now imposed by Colleges on students transferring from D.I.R. or D.O.C., this Committee further suggests:

That between now and January 1959 the Colleges of the University review their grade point requirements for students transferring to them from the Division of Counseling.

Respectfully submitted,
Senate Committee on
Academic Standards

Mr. Josephson moved the adoption of the report. The motion was seconded. Eugene Ackerman moved the adoption of the following amendment to the report:

The above suspension of rule P-10 shall apply only to students desiring to transfer from the Division of Counseling to a College which has not reviewed its grade point requirements for such students before May 31, 1958.

The motion was seconded and lost. The motion to adopt the report of the Committee on Academic Standards was passed.

NEW BUSINESS

O. R. MacKenzie moved that the Senate hold its regular meeting in the evening instead of at 4:10 p.m. during the year 1957-58. The motion was seconded and lost.

President Walker called attention to the Proposal to INCREASE THE NUMBER AND LENGTH OF TERM OF ELECTED SENATORS, which was distributed with the agenda as Appendix "F." The proposal is a recommendation to amend Article I, Section 1 of the Constitution to read as follows:

Article I—Membership

Section 1.

(a) The following shall be members of the University Senate: ex officio the President of the University, the deans of the several Colleges and the Graduate School, the Vice President for Academic Affairs, the Vice President for Business Administration, the Vice President for Development, the Vice President for Research, the Deans of the several Colleges and the Graduate School, the Dean of Men, the Dean of Women, the Director of the Health Service, the Librarian, the Dean of Admissions and Registrar (Secretary), the Comptroller, the Director of General Extension, the Director of Student Affairs, the Directors of Extension, the Directors of Research and the Associate and Assistant Deans in each of the Colleges and the Graduate School, the Dean of Summer Sessions, the Director of the Division of Intermediate Registration, the Director of the Division of Counseling, the University Examiner, the directors and heads of Schools, Divisions, and Departments of Resident Instruction, and nine representatives elected by ballot by the faculty of each College and the Graduate School for a term of three years of which three shall be elected each year. In case the head of a department is also the dean of the College, that Department shall have a representative in addition to the Dean.

(b) The University Senate shall be the sole judge of the elections and qualifications of its elected members.

Implementation. The provisions of this amendment shall take effect at the beginning of the academic year following adoption and approval by the Board of Trustees. In the first election following adoption the College representatives shall be elected as follows: Three for a term of one year; three for a term of two years, and three for a term of three years. In all succeeding elections the terms of office shall be as specified in section 1(a) of Article I.

Respectfully submitted,
E. R. Fitzgerald

D. R. McClay moved that this proposal be referred to the Senate Committee on the Organization and Operation of the University Senate, of which M. E. John is chairman. The motion was seconded and passed.

President Walker also requested the Committee to consider and clarify the last sentence of Article II, Section 1, of the Constitution wherein it refers to "review by the University Senate."

Mr. Schilling moved that the Senate approve the recommendation of the Graduate Faculty to ESTABLISH THE PROFESSIONAL DEGREE OF MASTER OF ENGINEERING. The motion was seconded and passed. The report is as follows:

(Continued on next page)

Senate Minutes—

(Continued from page three)

PROPOSAL TO ESTABLISH THE PROFESSIONAL DEGREE OF MASTER OF ENGINEERING

The Executive Committee recommends the adoption of the proposal which appears below. It feels that there is a definite need for such a professional degree. Its establishment would be in accord with recommendation of evaluators of the Middle States Association that the Graduate School "give consideration to the creation of advanced professional programs in engineering leading to such a degree as Doctor of Engineering Science." It would be taking the first step in that direction.

The ad hoc committee of the Graduate School appointed to consider the advisability of establishing a Master of Engineering degree recommends the following for consideration by the Graduate Faculty:

(1) That a new professional degree, Master of Engineering (M. Engr.) be established. That this degree be designated clearly as a professional rather than an academic degree and as suitable recognition for graduate studies designed to provide training for advanced professional competence.

(2) That a graduate's field of concentration be designated parenthetically after the degree, i.e., Master of Engineering (Civil), Master of Engineering (Nuclear), Master of Engineering (Metallurgical).

(3) That admission requirements be generally the same as those now existing for the Graduate School and that a candidate for this degree would have (a) a Bachelor of Science degree earned in graduating from an Accredited Engineering Curriculum or (b) a Bachelor of Science degree from a recognized institution and adequate training in mathematics, the physical sciences and the engineering sciences to qualify him for professional engineering activities.

(4) That a minimum of 30 credits be required; at least 12 of these would be in "500" level courses, and the remaining credits in "400" level courses.

(5) That a scholarly written report on a development study, comparable in its graduate level of work and quality, to a thesis and involving at least one area of study represented in his course work be required as an integral part of his Master's program.

(6) That a minimum of six credits be taken outside the candidate's field of concentration.

(7) That there be no "residence requirements" for this degree if in the opinion of the departmental or committee advisers a suitable program can be pursued off campus.

In the deliberations of the committee it was emphasized that this proposed new degree was not in any way a substitute for the academic degree of Master of Science. The need for the degree arises from the extraordinary technological advances made during the past two decades that demand advanced understanding by persons engaged in professional practice.

Committee: Messrs. Holderman, Marin, Ridge, Whisler, W. W. Miller, Rose, Noll, and Shaler.

D. H. McKinley explained the plans for the Commencement program on Saturday, June 8, 1957, and requested the participation of the Faculty.

The next regular meeting of the Senate will be on October 3, 1957. The agenda will be distributed on September 19, 1957. The meeting adjourned at 5:35 p.m.

C. O. Williams
Secretary

Five Receive Awards As Distinguished Alumni

Distinguished Alumni awards will be bestowed on five graduates of the University by President Eric A. Walker tomorrow at 2:30 p.m. in Schwab Auditorium as part of the Alumni Weekend program.

The five are: Samuel F. Hinkle, president of Hershey Chocolate Corp.; Harvey B. Jordan, vice-president of U. S. Steel Corp.; Dr. John R. Richards, chancellor of Oregon State System of Higher Education; Fred M. Waring, orchestra leader and choral director; and Oliver G. Willits, chairman of the board of Campbell Soup Co.

Leaves Granted Four, Extended For Eight

Leaves of absence were granted four faculty members and extension of leave were made for eight others by the Board of Trustees last week.

Leaves granted were to:

George L. Settlemyer, Juniata County agricultural agent, for the period April 16, 1958, through May 31, 1958, to complete work for a master's degree at the University of Wisconsin.

Edward S. Herman, assistant professor of economics, for the period Sept. 1, 1957 to Aug. 30, 1958, to accept a fellowship of the Ford Foundation Program in Economic Development and Administration.

Theodore S. Polansky, assistant professor of fuel technology, for the period July 1, 1957 to Aug. 31, 1957, to conduct research on the carbonization of coal at the Applied Research Center of the United States Steel Corp., at Monroeville, Pa.

Leaves of absence were extended for the following:

Dr. William L. Henning, head of the department of animal husbandry, to continue as Secretary of the Pennsylvania Department of Agriculture.

Leland H. Bull, county agricultural agent, to continue as Deputy Secretary in the Pennsylvania Department of Agriculture.

Maurice K. Goddard, director of the School of Forestry, to continue as Secretary of Forests and Waters, in Harrisburg.

Therman W. Wiser, instructor in accounting, for the period July 1, 1957 to June 30, 1958, to obtain experience in public accounting to obtain the degree of certified public accountant in Pennsylvania.

Clyde R. Burnett, assistant professor of physics, for the period July 1, 1957 to June 30, 1958, to continue work as a spectroscopist on "Project Matterhorn" at Princeton, New Jersey, in a project sponsored by the Atomic Energy Commission.

Horace R. Danner, research associate in physics, for the period July 1, 1957 to October 31, 1957, to continue work at the Brookhaven National Laboratories, Long Island, New York.

Joseph R. Reed, instructor in civil engineering, for the period July 1, 1957 to June 30, 1958, on military leave.

Kent Forster, professor of European history, for the period Sept. 1, 1957 to Jan. 31, 1958, to complete his present assignment of lecturing at the University of Helsinki, Finland, where he has been since July 1, 1956.

Lamade Re-elected

Howard J. Lamade, of Williamsport, has been re-elected to the board of directors of the Penn State Foundation by the Board of Trustees, the new term to begin July 1.

The Board is made up of 12 directors, five named by the Trustees, and the other seven by the Alumni Association and the University administration.

Summer Art Teachers Hold Many Honors

Andree Ruellan and John Taylor, two of the well known artists who will be visiting teachers in the Summer Art program on campus during main session, have both won many awards and have exhibited widely in several art media.

Both artists, who are husband and wife in private life, have studied abroad as well as under outstanding teachers in this country. Miss Ruellan has had nine one-man exhibitions in this country, including an exhibit at the American Academy of Arts and Letters. She has won numerous awards, one of which was a Guggenheim Fellowship for creative work abroad in 1950-51. Her paintings hang in many museums and galleries, including the Metropolitan Museum of Art.

John Taylor has also been represented in many national exhibitions, with oil and water colors. He is a Gold Medal of Honor winner, and has received a citation and grant in arts from the American Academy of Arts and Letters, and in 1954 a Guggenheim Memorial Fellowship. He has served as instructor in the Art Students League of New York summer school and at the John Herron Museum School, Indianapolis, Ind. His works also hang in many museums.

Three Trustees Returned To Board

Three incumbents of the Board of Trustees have been returned to the Board for three-year terms by alumni of the University.

J. E. Holtzinger, Altoona, Ben C. Jones, Greensburg, and Ethel Sparks Sparks, of Riverton, N. J., won out in the elections which also listed Harley L. Swift, Harrisburg, as a candidate.

Resignations Of Two Accepted By Trustees

Resignations of two faculty members were accepted by the Board of Trustees last weekend.

Dr. Morris Mendelson, associate professor of economics, resigned to continue in his position with the National Bureau of Economic Research, New York, where he has been since October, 1955.

Dr. Thomas R. Porter, associate professor of nature education, resigned to accept a position at the State University of Iowa.

Board Committees Made Larger

By action of the Board of Trustees at its meeting last week, the seven standing committees of the Board have been increased in membership from six to seven, exclusive of ex officio members.

The seven standing committees are: Extension, Finance and Business, Instruction, Long Range Development, Physical Plant, Research, and Student Affairs.



Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, Sept. 13

Fall registration continues, 8 a. m. to 12 noon and 1 p. m. to 5 p. m.

Saturday, Sept. 14

Fall registration continues, 8 a. m. to 12 noon.

Sunday, Sept. 15

Chapel service, 10:55 a. m., Schwab Auditorium, Dr. Luther H. Harshbarger, University chaplain, in charge.

Saturday, Sept. 21

Cosmopolitan Club cabin party at Forestry camp, with program of games, panel discussion, slides, and dancing.

Sunday, Sept. 22

Chapel service, 10:55 a. m., Schwab Auditorium, Dr. Wilhelm Visser 'T Hoff, general secretary, World Council of Churches, Geneva, Switzerland.

Dr. Tschan, Dr. Myers, Bower, Miss Bovie Succumb

Dr. Francis J. Tschan, professor emeritus of European history, died on July 24. He was retired from the faculty on Aug. 1, 1946, after serving for 21 years.

Dr. Charles E. Myers, who served on the faculty for 36 years prior to his retirement in 1944 as professor emeritus of plant breeding, died on July 10.

Jane Ann Bovie, associate professor of child development, died suddenly on June 27 at Yellowstone National Park where she was employed for the summer months. Miss Bovie, who has served on the faculty since 1945, had been granted a leave of absence to enable her to take graduate work at the Merrill-Palmer school in Detroit, Mich.

Richard M. Bower, assistant professor of hotel administration, died on Sept. 3 at Centre County Hospital. He joined the faculty in 1947. He was born in Pine Grove, Pa., in 1918 and had graduated from Michigan State University in 1940. He had served in various capacities before joining the faculty, including the management of the Hercules Country Club, Wilmington, Del., for five years.

Inauguration Set For Oct. 3

Dr. Eric A. Walker will be formally inaugurated as the 12th president of the University on Thursday, Oct. 3.

An inaugural ceremony, which will be open to the public, will take place in Recreation Building at 11 a. m. A reception and luncheon for formally invited guests will follow at 12:30 p. m. in the Hetzel Union Building.

Formal invitations have been extended to more than 600 guests, including members of the Board of Trustees, general officers and heads of academic and administrative divisions and others on the University staff.

Fulbright Applications Now Being Received

The deadline for applications for post-doctoral Fulbright awards has been set as Oct. 1 and for grants for graduate study under the Fulbright Act and the Buenos Aires Convention as Nov. 1.

Post-doctoral Fulbright awards are made for lectureships or research study in foreign countries. Although the University does not have application forms, booklets describing the program are available in the offices of the deans of the various colleges or from Robert E. Galbraith, Fulbright adviser, 243 Sparks Building.

Graduate study under the Fulbright Act and the Buenos Aires Convention are available in 19 countries abroad and in 16 Central and South American countries. Applicants must have a college degree before the beginning of the grant. Applications and pamphlets describing the grants are also available from Mr. Galbraith.

Departments are requested to return Faculty Bulletin Copies addressed to those who are no longer members of the faculty so that our mailing list may be corrected for the year. Please send them to 313, Old Main.

Visiting Professorships Established In Four Areas

To attract leading scholars and outstanding teachers, four distinguished visiting professorships have been established. They are in the humanities and arts, the social sciences, the physical sciences, and the biological sciences.

The professors, to be appointed as soon as possible, will devote a part of their time to teaching but also will present lectures, conduct seminars, and may participate in workshops.

Lawrence E. Dennis, vice-president for academic affairs, has designated four committees to assist in making the appointments. The committees are headed by: Dr. Ben Euwema (humanities and arts), dean of the College of the Liberal Arts; Dr. Howard A. Cutler (social sciences), head of the department of economics; Dr. E. F. Osborn (physical sciences), dean of the College of Mineral Industries; and Dr. R. W. Stone (biological sciences), head of the department of bacteriology.

The Board of Trustees has authorized a grant of \$60,000 to initiate the program, which is expected to continue on a year-to-year basis.

Construction Started On Residence Halls

Construction has begun on residence halls and a dining hall to serve 1,144 men students. They will enable the University to remove temporary housing in Pollock Circle when completed.

The new units are located along Park Ave., between Hort Woods and Shortlidge Road. The buildings will be of contemporary design. There will be four L-shaped residence halls, each four floors high. The dining hall will have two floors. Low bidder for the general construction was John McShain, Inc., of Philadelphia.

With completion of the new halls, a total of 5700 men and women students will be accommodated in permanent housing, about the same number now housed.

Senate Minutes

SENATE COMMITTEE ON ATHLETICS Annual Report

The responsibilities of this committee are specified in Section X of the Regulations for Undergraduate Students. The Committee derives its authority from the same section. In performing the specified duties throughout the year the Committee made 1204 determinations of eligibility for team managers and student athletes. Of these, 1050 students were approved for participation. In the same period, 1965 individual absences were approved for students engaged in athletic events and appropriate excuses were issued in these cases. Action was also taken during the year as required on requests of students to participate as individuals in purely amateur events not connected with the University. Most of these were for high school alumni events over the vacation periods. In the fall of 1956, freshman athletic schedules for the year were approved. In a meeting on April 2, varsity and freshman schedules for the year 1957-58 were considered. These schedules are undergoing modification and final approval will be considered at a later date.

In addition to the responsibilities charged specifically by the Senate this committee, comprising the only group which may be termed a "faculty committee," acts for the University in matters pertaining to its relations with the Eastern College Athletic Conference and the National Collegiate Athletic Association. The rules of these organizations also have to be observed in addition to the Senate Regulations in approving schedules and determining eligibility.

With regard to the scheduling of inter-collegiate athletic events, the Committee has established rules and limitations which have evolved over a period of years. For the information of the Senate and the faculty at large, these rules are summarized in the following:

1. The maximum hours of absence in a regular season for any one sport shall not exceed 60 hours except that for indoor and outdoor track combined, the limitation is 70 hours. Hours of absence are determined on the basis of seven hours for each day that the University is in session (four hours for morning, three hours for afternoon).
2. The maximum number of contests in a regular season shall be as follows:

Varsity Sports

Football	10
Basketball	18
Soccer	10
Tennis	12
Golf	10
Baseball	20-22
Gymnastics	6
Cross Country	5
Outdoor Track	6
Lacrosse	10
Wrestling	9
Indoor Track	5

Freshman Sports

Football	3
Basketball	6
Soccer	3
Baseball	5
Gymnastics	2
Cross Country	3
Outdoor Track	3
Lacrosse	3
Wrestling	3
Indoor Track	1

3. No dual contests may be scheduled for the period beginning one day before and ending one day after any regularly scheduled final examination period. No dual contests are to be scheduled for the regular semester registration periods.
4. Post season playoffs and championship contests will be approved for athletic teams provided that such events are sponsored or supported by the National Collegiate Athletic Association. Team participation in such events is approved as a matter of policy without specific authorization of the Committee in each case. It is recommended that the faculty give every consideration to accommodating individual students who are members of championship teams competing under these circumstances.
5. Post-season competition by individual students, not as a team, will be approved by the Committee only on the recommendation of the Director of Athletics.
6. Events other than dual events and

N.C.A.A. playoffs are occasionally scheduled beyond the control of the University for the periods mentioned in Paragraph Number 3 as prohibited. Participation in such contests if deemed advisable, may be approved only with the understanding that students having scheduled academic commitments will not be permitted to compete.

7. Although the actual scheduling and distribution of contests is the responsibility of the Director of Athletics and is, of course, complicated by the schedules of proposed opponents, the Committee recommends that, when possible, approximately half of the contests be scheduled as home events and that a reasonably equitable distribution of home and away events be arranged. Exceptions are football, which customarily has four home games, and indoor track, for which Penn State has no facilities.

N. R. Sparks
Chairman

SENATE COMMITTEE ON RESEARCH POLICY Annual Report

The Committee on Research Policy was established in December 1956 by the University Senate to consider matters of policy pertaining to research. This committee has met at weekly intervals beginning January 2, 1957 and biweekly during April and May. The first report was presented to the Senate on April 4, 1957 and was approved.

The committee has set for itself the task of formulating a policy for research at Penn State and to express this policy in a series of reports to be presented to the Senate for their criticism and approval. The report presented on April 4, 1957 was the first of these policy statements and dealt primarily with importance of research as a basic function of the University.

Questions now being considered by the committee are: the development of more productive research among the faculty, proper balance of university research activity, relation of research to graduate study, effects of contract research, and space and facilities for research.

Respectfully submitted,
Robert W. Stone,
Chairman

SENATE COMMITTEE ON ACADEMIC STANDARDS Annual Report

This past year your Committee on Academic Standards held 25 meetings. A total of 254 cases involving petitions for reinstatement or exceptions to Senate regulations were considered. The following table presents the distribution of cases and actions taken:

Type of Case	Total	Approved	Denied
Reinstatement	213	178	35
Exceptions to Rule B-1	11	10	1
Exceptions to			
Res. Rule E-3	7	7	0
Exceptions to			
Res. Rule E-5	11	11	0
Exceptions to			
Res. Rule E-6	10	10	0
Miscellaneous	2	2	0
TOTAL	254	218	36

In order to evaluate the work of students after reinstatement the Committee, again this year, studied the fall semester performance of all students reinstated between June 6 and October 1, 1956. Of 96 students who were granted reinstatement 80 actually returned and completed the fall semester.

The following table presents a rather favorable picture concerning the quality of work done by these students during their first semester after reinstatement:

Semester Average	Number in Group	Per Cent of Total
Less than 1.0	3	3.7
1.0 to 1.49	6	7.5
1.5 to 1.99	16	20.0
2.0 to 2.49	17	21.3
2.5 to 2.99	18	22.5
3.0 to 3.49	9	11.3
3.5 to 4.0	11	13.7
TOTAL	80	100.0

Of these 80 students 55 or 68.7 per cent made grade point averages over 2.0 (C) for their first semester after reinstatement. This percentage compares favorably with similar groups reported in 1954, 1955 and 1956 (63.2, 55.5 and 66.6, respectively). The data presented above for this year's group is particularly impressive in view of the fact that the mean grade point average of these 80

students, at the time of reinstatement, was 1.46.

This Committee was requested to study the possibility of a revision of the University scholastic action standards which would more realistically implement the C (2.0) graduation rule adopted in 1955. After extensive studies by the Committee a new schedule of minimum scholastic action standards was recommended to and passed by the Senate on March 7, 1957. These recommendations included changes in rules M-3 and Q-2 and a complete reorganization and renumbering of the P rules. New drop action, probation and warning standards were adopted and the present 50%, 1.5, 35% and 1.65 rules eliminated. In connection with this study the Committee received the complete cooperation of all University officers. The Committee is particularly indebted to the Dean of Admissions and Registrar, his staff and the Director of Counseling, all of whom conducted special investigations relating to these studies and were available for counsel throughout the year.

Respectfully submitted,
D. V. Josephson,
Chairman

SENATE COMMITTEE ON CALENDAR Annual Report

During the 1956-57 school year the Calendar Committee recommended no changes in the basic calendar policies which have been in effect since April, 1953. However, the Calendar Committee submitted two recommendations to the Senate, in October and March, concerning the 1957-58 calendar. Both were passed by the Senate. The effect of these recommendations was to increase the time between the Fall and Spring semesters and to reduce the Christmas recess.

The other matter considered by the Calendar Committee this year concerns the almost certain need for making better use of our facilities during summers as the expected large increase in enrollment takes place in the next few years.

The possibilities of recommending that the University shift to the quarter system or to a trimester system were considered in detail. The merits and demerits of both were studied carefully. Advice of the executive committees of the various colleges and of individual faculty members was sought actively. Vice President Dennis presented the Administration's viewpoint and helped the Committee in its deliberations. The conclusion reached by the Committee was that the Senate was not yet ready to vote for a major calendar change.

It was only at the last meeting of the committee, on May 27, that a really attractive means of attacking the problem was evolved. The thinking of the Committee at the conclusion of that meeting was that the University should offer an expanded program in the summer of 1958 within the framework of the present Summer Sessions. The recommended length of the program has not yet been determined but may be as long as 12 weeks duration or as short as 9 weeks, depending on whether it is designed particularly for new freshmen or for students who have already been at the University one or more years. It is hoped that several departments would be willing to participate in such a pilot project the first summer and more departments thereafter.

A specific recommendation should be made on this matter for the first Senate meeting in the Fall semester so that the Summer Session plans for 1958 can be completed soon thereafter.

Respectfully submitted,
R. B. Saylor,
Chairman

Chapel Choir Wins Wide Acclaim On Tour

The University Chapel Choir, which completed a six-weeks tour of England, France, Italy, Switzerland, Germany, and The Netherlands on Aug. 1, won wide acclaim wherever it sang.

Under the direction of Willa Taylor, the choir of 70 voices completed the tour at Westminster Abbey. A review of that concert appearing in the London Times praised the choir for its mellow and pure tone, precise attack, and malleability and sensitivity.

Items of Interest

Dr. Elton Atwater, head of the department of political science has been named associate director of the Quaker Program at the United Nations by the American Friends Service Committee of Philadelphia. He has been granted a one-year leave of absence for the work and will reside in New York.

* * *

Milton S. Osborne, head of the department of architecture, will spend the coming academic year at the University of Toronto studying the curriculum and offerings of the school of architecture. He has been granted a leave of absence for the purpose.

* * *

Dr. Richard N. Jorgenson, assistant professor of wood technology, will leave this month for Merida, Venezuela for a two-year assignment as chief of the section of wood technology at the Latin American Forest Research and Training Institute, University of the Andes. This is his second assignment at that institution, having engaged in a special research project in 1951-52.

* * *

Dr. Earl P. Strong, director of the Bureau of Business Research, this week conducted a two-day business productivity clinic in London, England, at the invitation of British industrialists and higher education leaders.

* * *

Dr. Marsh W. White, professor of physics, has been elected chairman of the Physics Division of the American Society for Engineering Education.

* * *

Dr. Mary L. Dodds, professor of foods and nutrition, was presented the 1957 Borden Award for outstanding research in the field of nutrition in June.

* * *

Dr. Gerald M. Moser, assistant professor of Romance languages, is attending the Third International Conference of Portuguese-Brazilian Studies at Lisbon, Portugal this week at the invitation of the American Council of Learned Societies. He will report the meetings to the Council and also to the American Association of Teachers of Portuguese, which he serves as corresponding secretary.

* * *

Dr. Roy C. Buck, associate professor of rural sociology, has been elected president of the American Country Life Association, composed of farm organizations, religious and educational groups, and others.

* * *

Dr. Donald V. Josephson, head of the department of dairy science, has been elected president of the American Dairy Science Association.

Dr. Frederick B. Marbut, professor of journalism, began an assignment as visiting lecturer at the University of San Andres, La Paz, Bolivia, on July 1, under a grant by the International Education Exchange Program of the Department of State. He will remain until Jan. 1.

* * *

Robert H. Ramsey, professor of engineering research, is currently conducting a survey to determine the research effectiveness and potential of the nation's engineering schools, sponsored by the American Society for Engineering Education under a grant by the National Science Foundation.

* * *

Dr. Vernon Aspaturian, assistant professor of political science, who has been on leave for the past year working at Stanford University's Hoover Library under a grant from the Rockefeller Foundation to study the role of ideology in Soviet Foreign policy, will continue half time in his research while also teaching half time on campus for the coming year.

* * *

The U. S. Office of Education has granted \$5,000 to the University to survey the reasons students accepted for college fail to show or drop out during the academic year. Penn State is one of 20 universities chosen for the special research. Dr. C. O. Williams, dean of admissions, and Dr. T. S. Stanford, associate dean, will conduct the survey.

* * *

Dr. Grant W. Smith, professor of chemistry, has been granted a year's leave of absence to serve as program director for the summer institutes for science teachers to be conducted by the National Science Foundation throughout the country. He will have headquarters in Washington, D. C., but will travel extensively.

Three Attend Meetings Of Modern Language Group

Three members of the faculty of the department of Romance languages this week attended the annual convention of the Modern Language Association at Madison, Wisconsin, and participated in the program.

Dr. Simon Belasco, assistant professor, read a paper on "The Psychoacoustic Interpretation of Vowel Color Preferences in French Rime," and participated in meetings of the advisory and nominating committee. Dr. Hugh Chapman, Jr., served as chairman of two committees on comparative literature. Dr. H. Tracy Sturcken, assistant professor, read a paper on "The Language of the Fuero de Teruel," and also served as a committee member.

A paper by Dr. Gerald M. Moser on the subject "Brazilian Verse Epics in the Twentieth Century" was read by a friend in his absence.

Research Grants Received

The U. S. Public Health Service has renewed its support of research in the determination of the amount of oxygen in blood and other body fluids with a grant of \$9,580 to Dr. Joseph Jordan, associate professor of chemistry.

* * *

A one-year grant of \$14,910 has also been made by the U. S. Public Health Service to R. Rupert Kountz, professor of sanitary engineering, in continued support of his studies on sewage treatment.

* * *

The Office of Naval Research has extended its contract for research on "Pulse Turbine Efficiency" being carried out by Dr. A. W. Hussmann, professor of engineering research.

* * *

Dr. Robert W. Taft, Jr., professor of chemistry, has been granted \$6,480 by the Alfred P. Sloan Foundation to aid in his research in reactivity and molecular structure. This is the third grant he has received from the Foundation. Dr. Taft has also been granted a two-year extension of an Office of Naval Research contract supporting research on "Polar and Steric Factors."

* * *

Dr. Fred H. Lewis, professor of plant pathology at the Arendtsville Field Laboratory will direct research in the field of fruit fungicide evaluations under a grant from E. I. DuPont de Nemours and Co.

* * *

The U. S. Department of Health, Education and Welfare has granted \$4,686 to Dr. Donald F. Mitchell, assistant professor of genetics, to continue his studies on the effects of radiation on heredity.

* * *

The Eastern States Farmers Exchange has renewed its fellowship to Dr. Clifford C. Wernham, professor of plant pathology, to enable him to continue his studies on corn disease. The one-year grant is for \$1,872.

* * *

Dr. Norman C. Deno, associate professor of chemistry, has received his third grant from the Petroleum Research Fund of the American Chemical Society for studies in the field of acid-catalyzed reactions of hydrocarbons.

* * *

Dr. W. E. Ranz, professor of engineering research, has been granted a sum of \$15,700 by the Office of Naval Research under "Project Squid" to continue his studies on the nature of air motion inside and outside of fuel sprays.

* * *

A one-year grant of \$17,000 by the Office of Naval Research has been given to Dr. A. W. Hussmann, professor of engineering research, for continuation of his studies on gas turbine combustors.

156 Promotions Announced

Promotions of 156 members of the faculty were approved by the Board of Trustees during summer months. All were effective July 1.

ASSOCIATE PROFESSOR TO PROFESSOR: Dean Asquith, entomology; Dr. Elton Atwater, political science; Sanna D. Black, home management extension; Dr. Joseph F. Bradley, finance; Charles H. Brown, journalism; Dr. Hugh S. Brown, education; Dr. Tien-hsi Cheng, zoology; Ray M. Conger, physical education; Dr. John F. Corso, psychology; Dr. Walter J. DeLacy, education; James W. Dunlop, music education; Dr. Henry R. Fortmann, agronomy; Dr. Elmer A. Gross, physical education; Dr. Joseph H. Grosslight, psychology; Dr. Alvin R. Grove Jr., botany; Dr. William M. Hench, international trade; Robert B. Hewes, mineral industries extension; Floyd A. Hummel, ceramic technology; Francis E. Hyslop, Jr., history of art and architecture; Thomas B. King, animal husbandry extension; Dr. David R. McClay, agricultural education; Dr. Henry Menusan Jr., entomology extension.

Dr. G. Kenneth Nelson, accounting; Margaret A. Neuber, education; Dr. George U. Oppel, engineering mechanics; Mary K. Rissinger, home economics extension; Dr. Rustum Roy, geochemistry; Robert D. Scheirer, civil engineering; Samuel Shulits, civil engineering; Dr. Shiu-Chuan Sun, mineral preparation; Clarence M. Sykes, physical education; Dr. Dorothy H. Veon, education; Robert K. Vierck, engineering mechanics; Eugene Wettstone, physical education; Wayne H. Wilson, landscape architecture; Edwin W. Zoller, art.

ASSISTANT PROFESSOR TO ASSOCIATE PROFESSOR: Dr. Dorothy E. Alfke, education; Dr. Adam Anthony, zoology; Frederick R. Axelsson, engineering research; Dr. James B. Bartoo, mathematics; Ronald A. Bartoo, forestry; Allen H. Bauer, plant pathology extension; Dr. Simon Belasco, Romance languages; Dr. Asa J. Berlin, speech education; A. Kermit Birth, agricultural economics extension; Dr. Converse H. Blanchard, physics; Dr. Gerald R. Bosch, education; Nicholas M. Brentin, Romance languages; Richard O. Byers, journalism; Dr. Albert S. Carney, chemistry (General Extension); Dr. Hugh H. Chapman, Jr., Romance languages; Joseph J. Comer, mineral sciences; Dr. William Craig, mathematics; Harry M. Crain, engineering research, ORL; Kenneth R. Davenport, mechanical engineering; Maurice R. Des Marais, architecture; Dr. Phyllis R. Griess, geography.

Dr. William W. Hamilton, speech; Dr. Elmer W. Hartsook, animal nutrition; Dr. Edward S. Herman, economics; Dr. Lyman C. Hunt Jr., education; Dr. Joseph Jordan, chemistry; Dr. Robert W. Kautz, business statistics; Dr. Boris J. Kochanowsky, mining engineering; Irvin H. Kochel, physical education (General Extension); Chester Linsky, industrial engineering; Robert E. McCord, engineering extension; Joseph A. McCurdy, agricultural engineering extension; Dr. Malcolm C. McQuarrie, ceramic technology; Evelyn C. Marboe, mineral sciences; Ellen C. Masters, English literature (General Extension); Rex E. Melton, forestry; Edward A. Mintmier, agricultural extension; Carl R. Moss, industrial engineering; Dr. Arnulf I. Muan, metallurgy.

Dr. Monroe Newman, economics; Dr. Francena L. Nolan, rural sociology; Dr. Howard B. Palmer, fuel technology; Dr. Robert D. Pashek, transportation; Elmer C. Pifer, agronomy extension; Dr. C. Marshall Ritter, pomology; Dr. John J. Schanz Jr., mineral economics; Orvel A. Schmidt, forestry; Dr. Robert Scholten, petroleum geology; William J. Schrader, accounting; Dr. Philip S. Skell, chemistry; Dr. Joseph V. Smith, mineralogy; Doris L. Snook, home management extension; Dr. C. Drew Stahl, petroleum and natural gas engineering; Rita L. Sullivan, home economics extension; Albin E. Tacelosky, engineering (General Extension); Dr. Gerald M. Torkelson, education; Clarence E. Trotter, marketing; Dr. Loren D. Tukey, pomology; Gilbert H. Ward, physics (General Extension); Wilber W. Ward, forestry; Dr. Winston R. Weisman, history of art and architecture; Dr. Francis L. Whaley, psychology; Dr. Thomas A. Wiggins, physics; Robert G. Wingard, wildlife management extension; N. Henry Wooding Jr., agricultural engineering extension; Dr. Harold D. Wright, mineralogy; Dr. Richard E. Zindler, engineering research, ORL; George S. Zoretich, art.

INSTRUCTOR TO ASSOCIATE PROFESSOR: Carl Volz, electrical engineering.

INSTRUCTOR TO ASSISTANT PROFESSOR: Earnest E. Baer, physical education; Robert C. Baker, engineering (General Extension); Robert M. Barnoff, civil engineering; John S. Barth, English composition; Lewis C. Butler, mathematics; Edward A. Dreisbach, engineering (General Extension); Dr. John P. Driscoll, education; John S. Egli, physical education; Helmut J. Golatz, industrial relations; Norman W. Gordon, physical education; Allen R. Gray, physical education; Louise B. Hartzell, English composition; Dr. Warren W. Hassler Jr., history; Walter H. Hill, architecture; Tyree R. Horn, engineering (General Extension); Kenneth Hunter, engineering extension.

Francis L. Kreuzberger, animal husbandry extension; Richard N. Krogh, Romance languages; Benjamin A. Lane, English composition (General Extension); Martin Levine, engineering (General Extension); John A. Longo, accounting (General Extension); Frank P. Mansuy, English composition (General Extension); George R. Nelson, engineering (General Extension); Dr. Helen W. Nutting, chemistry (General Extension); Preston D. Peightal, Jr., history (General Extension); William L. Richards, engineering (General Extension); Dr. E. Terry Schwarz, education; Dr. Gordon R. Smith, English composition; Dr. Clark C. Spence, history; Dr. Donald B. Swegan, physical education; Donald R. Ulrich, engineering (General Extension); Alvi O. Voight, agricultural economics extension; Harold D. Werner, engineering (General Extension); Russell G. Whaley, theatre arts; Clyde J. R. Witman, industrial engineering; Thomas A. Wright, engineering extension.

RESEARCH ASSOCIATE TO ASSISTANT PROFESSOR: Dr. Egon T. Degens, geochemistry; Dr. Frank H. Gillery, solid state technology; Virgil E. Harris, engineering research, ORL.

RESEARCH ASSISTANT TO ASSISTANT PROFESSOR: Alfred A. Adomincs, engineering research, ORL.

RESEARCH ASSISTANT TO RESEARCH ASSOCIATE: Thomas E. Peirce, Ordnance Research Laboratory.

INSTRUCTOR TO LECTURER: Owen H. Sauerlender, economics.

ASSOCIATE EXTENSION HOME ECONOMIST TO HOME ECONOMIST: Gloria A. Beppler; Martha P. Chapman; Phyllis J. Fetterman; Doris A. Fritz; Betty M. Heinbach; Lucille P. Johnson; Lura J. Leitzel; Joan E. Madden; Betty J. Nairn; Kathleen O. Zumbro.

ASSISTANT EXTENSION HOME ECONOMIST TO ASSOCIATE EXTENSION HOME ECONOMIST: Ruth P. Miller.

ASSISTANT COUNTY AGRICULTURAL AGENT TO ASSOCIATE COUNTY AGRICULTURAL AGENT: William G. Downs III; Robert O. Hobbes; Clair R. Kime; Victor W. E. Plastow; James R. Simons; Harvey S. Wingard; Bernard L. Wingert; John E. Withrow.

Appointments Announced

Dr. Delbert C. Miller, one of the nation's leading industrial sociologists, on Sept. 1 became professor of sociology and will be in charge of developing teaching and research in industrial sociology. He came here after serving ten years on the faculty of the University of Washington, at Seattle.

McKay Donkin, since 1951 special assistant to Lewis L. Strauss, chairman of the Atomic Energy Commission, has been named vice-president for finance and the Board of Trustees elected him treasurer of the Corporation. He will succeed to the positions now held by S. K. Hostetter, who will retire on Oct. 1.

Dr. William H. Gray, professor of Latin-American history, has been named director of International Student Affairs. He will continue in his academic position. He succeeds Richard C. Maloney, who will devote full time to his duties as associate dean of the College of the Liberal Arts.

Dr. William U. Snyder, professor of psychology, has been named director of the Psychology Clinic, to succeed Dr. Robert G. Bernreuter, who is now di-

rector of the Division of Counseling and special assistant to the president for student affairs. Dr. Snyder has been acting director of the Clinic since Dr. Bernreuter resigned last year to organize the Division of Counseling.

Dr. Paul W. Bixby, professor of elementary education, has been named acting head of the department of education in the absence of Dr. Charles M. Long, who is on a year's leave of absence to serve as educational specialist with the International Cooperation Administration in Bele Horizonte, Brazil.

Dr. Floyd L. Carnahan, associate professor of chemical engineering and assistant to the dean of the College of Chemistry and Physics, has been named acting head of the department of chemical engineering. The appointment will become effective on Oct. 1 upon the retirement of Dr. Donald S. Cryder, who has headed the department since 1948. Dr. Carnahan will continue with his present duties.

Dr. M. Nelson McGeary, professor of political science, has been appointed head of the department of political science for a three-year period ending June 30, 1960. He succeeds Dr. Elton F. Atwater who has been granted a leave of absence until June, 1958. Dr. McGeary once before, from 1948 to 1951, acted as head of the department.

Arthur T. Thompson, professor of engineering research and assistant director of the Ordnance Research Laboratory, has been named associate director of the Lab. Carroll L. Key, Jr., has been named assistant director.

Dr. John R. Mentzer, professor of electrical engineering, has been named professor of engineering sciences and is in charge of the curriculum in engineering science. The appointment was effective July 1.

Dr. H. Seymour Fowler, specialist in educational television and conservation, has joined the faculty of the College of Education as associate professor of nature and science education. He was on the faculty of Iowa State University from 1952 until coming here.

Dr. Arthur G. Maw, professor of poultry husbandry, has been named to succeed Ernest W. Callenbach as head of the department when the latter retires Oct. 1.

Dr. A. Bruce Sutherland, professor of English literature, has been named acting head of the newly organized department of English, which was formed by the merger of the departments of English composition and English literature.

Richard O. Rowlands, British specialist in color television and electroacoustics, has been appointed associate professor of electrical engineering.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Saturday, Sept. 21

Cosmopolitan Club cabin party, at Forestry Camp, with program of games, panel discussion, slides, and dancing.

Sunday, Sept. 22

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. William A. Visser 't Hooft, general secretary, World Council of Churches, Geneva, Switzerland.

Monday, Sept. 23

Engineering Mechanics Seminar, 4:10 p.m. on digital computer, PENNSTAC. Subject: "A Program for Computing Principal Stress from a Three-Element Strain Rosette."

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. P. Allen, head of the department of geology, University of Reading, England, on "The Petrology of the Chalk."

Faculty Luncheon Club, 12 noon, Dining Room "A," Hetzel Union Building. Dr. Robert T. Oliver, head of the department of speech, on "Australia—Land Down Under."

Tuesday, Sept. 24

Physics Colloquium, 4:10 p.m., 117 Osmond. Dr. Robert D. McCammon, research associate in physics, on "Mechanical Properties of Metals at Low Temperature."

Meeting of Central Pennsylvania Section of American Chemical Society, 8 p.m., 119 Osmond Lab. Dr. Lawrence S. Darken, associate director of the Fundamental Research Laboratory, U.S. Steel Corp., on "Chemistry and Diffusion in Metals."

Meteorology Seminar, 4 p.m., 202 Willard Building. Dr. Marcel Nicolet, secretary-general of the special committee for the International Geophysical Year, on "The Vertical Distribution of Atomic Oxygen, Molecular Oxygen, and Ozone."

Friday, Sept. 27

Graduate School convocation and dance-mixer. Convocation in Schwab Auditorium, 7:30 p.m., with Dr. Putnam Fennell Jones, dean of the graduate school of the University of Pittsburgh, as speaker. Dance-mixer follows in Hetzel Union Building.

Grad School Convocation, Dance-Mixer on Sept. 27

All members of the Graduate School faculty and graduate students are invited to attend the Graduate School Convocation in Schwab Auditorium at 7:30 p.m., Friday, Sept. 27. Dr. Putnam Fennell Jones, dean of the Graduate School of the University of Pittsburgh, will be the speaker.

A dance-mixer will follow the convocation in the Hetzel Union Building. Refreshments and admission will be free. Election of representatives of the several colleges to the Graduate Student Association Council will be held.

Oct. 3 Classes Suspended From 10:45 to 12 Noon

Certain class hours on Thursday, Oct. 3 will be suspended so that students may attend the inauguration of Dr. Eric A. Walker as 12th president of the University.

There will be no classes from 10:45 a.m. to 12 noon on that date. Classes beginning at 10 a.m., which normally would end at 10:50, will be dismissed five minutes early. Classes scheduled at 11 a.m. will not be held.

The inauguration ceremony, open to the public, will take place at 11 a.m. in Recreation Building. A reception and luncheon for formally invited guests will be given at 12:30 in the Hetzel Union Building.

Fourth Nuclear Training Group Arrives On Campus

The fourth group of scientists to train at Penn State under the "atoms-for-peace" program in nuclear science and engineering arrived this week. The 27 scientists, from 18 different nations, will receive four month's training in the theory and operation of nuclear reactors and will get advanced training in specific fields in another four-months program at Argonne National Laboratories.

Dr. Warren W. Miller, associate professor of chemistry, is in charge of the academic side of the scientists' training and Virgil E. Neilly, associate professor of engineering extension, in charge of student affairs.

Senate Meeting On Oct. 10

The first meeting of the Senate for the fall semester will be held on Thursday, Oct. 10, at 4:10 p.m. in the Assembly Room of the Hetzel Union Building. Please note that the date does not correspond to the usual first Thursday of the month, the change being made necessary by the activities associated with the inauguration of President Eric A. Walker.

Enrollment Up 1309 Over Last Year's Early Figures

A total of 16,837 students, including 13,803 on main campus, have been enrolled for the fall semester, according to incomplete figures released by Dr. C. O. Williams, dean of admissions, last weekend.

The total is 1,309 greater than that of a corresponding period last year. The main campus total is 989 over that of last year.

Dean Williams reported that there are 120 freshmen enrolled at Mont Alto, and 1,363 bachelor's degrees candidates and 1,551 associate degree candidates at Penn State centers.

Final enrollment totals last year reached 16,045, compared to the preliminary figure of 15,528.

\$40,000 Bequest Made By 1897 Graduate

A bequest of \$40,000 has been made to the University under the terms of the will of the late Ermin Forest Hill, of Hughesville, an 1897 graduate with first scholastic honors in philosophy.

Before entering Penn State, Hill was a teacher in Lycoming County, where he returned after receiving his bachelor's degree. He was admitted to the bar in Lycoming County in 1904 and practiced law there for many years. He died on July 16, this year.

French, Spanish Tests Scheduled Sept. 23-26

Graduate students who are planning to take the written reading examinations in French or Spanish on Monday, Nov. 4, must have first passed a preliminary oral test to determine the adequacy of their preparation.

Those who have not yet taken such a test should make an appointment immediately at Room 300 Sparks Building. Oral tests in French or Spanish will be given on Sept. 23, 24, 25 and 26 from 2 to 6 p.m.

Senate Minutes

SENATE COMMITTEE ON STUDENT AFFAIRS

Annual Report

The Senate Committee on Student Affairs met in regular weekly meetings during the year. Most matters of routine nature, such as granting excuses under Rule K-5, were delegated to the Dean of Men and the Dean of Women, but many other questions of comparatively minor importance were considered. Through the representatives of All-University Cabinet and W.S.G.A. the committee enjoyed excellent relationships and close understanding with the student government groups through the year. The formation of an Administrative Committee on Student Affairs and cooperation with that group has greatly clarified and expedited the work of this Senate Committee. The privilege of meeting with the Student Affairs Committee of the Board of Trustees is also cited as a remarkably fine development.

The committee aided in the instrumentation of several recommendations from the 1956 Mont-Alto student-faculty encampment, as well as in planning the 1957 encampment.

On recommendation of ad hoc committees the following action was taken:

Solicitations or any fund raising endeavor for charitable purposes among students, by students or student organizations, shall be limited to causes affecting the welfare of students at The Pennsylvania State University or the welfare of students at other institutions for higher learning.

It was agreed that it is in the best interest of the University to require all student organizations chartered by the University to handle their finances through the Associated Student Activities office, or some similar University agency, or to be required to provide financial statements prepared by a Certified Public Accountant. It was further agreed that a study should be made as to how this system for control of funds could be financed, including such possibilities as charging the organizations a fixed amount or a percentage of their income each year, and recommended that means be found to accomplish this plan beginning with the fall semester, 1957.

It was agreed that as soon as scholastic averages are received from the Registrar each semester all fraternities falling below 2.00 shall have social privileges suspended—for such failure in a fall semester the privileges shall be suspended from the time the grade averages are announced until the end of the spring semester and participation in Spring Week will be prohibited; for failure in a spring semester privileges shall be suspended from the opening of the next fall semester until the mid-semester grade report.

The committee accepted a progress report proposing a comprehensive study and trial of "point" evaluation system as a basis for compensation for students participating in extra-curricular activities. The proposal is for compensation in the form of: (1) Remission of fees; (2) Trips, e.g. judging and forensic teams; (3) Course credit, and (4) Activities participation scholarships.

The work of the subcommittee on Academic Honesty during 1956-57 has consisted of:

1. Tabulating the results of 46 questionnaires returned by Department Heads and 326 questionnaires returned by students. (A summary of these results is "in press" and will be turned in by the end of the semester.)
2. Preparation of a report proposing Senate consideration of the use of Honor System—proctoring in limited areas, probably involving only upperclassmen. (Copies of this report will be distributed with the Senate agenda for June. The report is intended to be on the table till fall.)

Subcommittee on Discipline, as provided for in Senate By-Laws (Article II, Sec. 1, K, 4) heard all cases referred on information from the Offices of the Dean of Men or the Dean of Women, as well as cases presented by appeal on the part of students subject to disciplinary action imposed by the several judicial groups in student government. The summary results of these hearings of cases of behavior unbecoming to a student of the University and/or prejudicial to the good name of the University were: 13 students suspended, 23 students on disciplinary probation, 4 fraternities deprived social privileges for varying lengths of time, and support for the action taken by departments and College Committees on Academic Honesty disenrolling two students with failing grades in the courses involved.

The Subcommittee on Organization Control considered petitions and interviewed representatives of student groups and made recommendations leading to approval of:

Penn State Science Fiction Society, Major Students' Association for Physical and Recreational Education, Penn State Lacrosse Club, Student Chapters of the American Institute of Industrial Engineers, PYROSE, IFC Purchasing Association, and Sigma Kappa Tau (honorary) as new organizations;

Delta Sigma Lambda to affiliate with Sigma Tau Gamma, Staff of WDFM to apply for a chapter of Rho Tau Sigma, and Sigma Phi Alpha to affiliate with Alpha Kappa Lambda; and changes in constitution for The Geophysical Society and the Inter-College Council Board.

The Subcommittee on Social Affairs met on several occasions during the year to discuss problems of: (1) The General Social Program—Coordination of social activities, and approval or regulating social functions and public entertainments; (2) The All-Campus Activities Calendar, and (3) A "Social Guide" for the use of students and student organizations.

Respectfully submitted,
Henry S. Brunner,
Chairman

Annual Report of Senate Representative on the Board of Student Publications

Student publications have played their usual important part in the campus life of Penn State during the past year.

The Daily Collegian, despite some criticisms, has maintained a relatively high standard of campus news coverage and, as the year progressed, showed an increasing appreciation of its editorial responsibilities. From a business standpoint the Collegian had a very satisfactory year marked by the greatest volume of advertising revenue in its history. During the year some success was achieved in better distribution of staff work, a real problem on publications in a growing university.

Froth, the humor monthly, also experienced the need for a better spread of staff work and made progress in meeting this need. While in the past year Froth humor may have lapsed occasionally from the ideals of good taste it might in fairness be said that the humor standards of Froth compare favorably with those maintained by similar publications at other universities. Froth had a fair business year though it did experience a slight decline in advertising revenue.

The Penn State Engineer reports a good year from both editorial and business viewpoints. Published in its usual impressive magazine format the Engineer continues to compare very favorably with other university publications of its kind. A new column of news briefs was added to this publication and excellent staff cooperation is reported.

Better trained personnel seems to be a need of the Penn State Farmer, Forester and Scientist and, according to this publication's adviser, registrants in the new Ag-Journalism curriculum should soon be a source of better trained people for the Farmer. While this semi-semester publication showed a slight financial profit during the past year finances seem to be an aspect of its affairs that has to be watched very closely.

The Ag-Hill Breeze, weekly student publication in the College of Agriculture, shows better organized news coverage, largely the result of news gathering done by an agricultural journalism class. Future plans look to a printed format for the Breeze in place of its present mimeographed form.

It should be pointed out that this was the first year of an activated agricultural journalism curriculum and that under the advisership of the professor in charge both the Farmer and the Breeze will be increasingly used as laboratory adjuncts to ag-journalism classes.

The Biz-Ad Bulletin, published twice a semester, this year placed the primary responsibility for its publication in the hands of the Student Council of the College of Business Administration. With a little more maturity in editorial viewpoint this publication should function as an adequate organ of communication and information for the students of this College.

News and Views is edited in magazine format four times a year by the students of the College of Home Economics and has taken many steps during the past year both for the enlargement of its staff and the improvement of its content. A layout editor, art staff, and publicity staff have been added and plans are being made for a more intensive staff training program.

Finally there are two literary publications produced on the campus. Pivot, the poetry

magazine, published only in the Spring semester, is mainly the product of an English Composition workshop class. Pivot receives many complimentary letters annually from poets, critics and editors. The Lantern, a general literary magazine, appears in attractive format twice yearly and is sponsored by the Liberal Arts, Engineering, and Physical Education Student Councils, assisted by the Androcles Hat Society. This publication, now in its fourth year, prints both fiction and poetry and seems in the last year to have improved the quality of its content.

Lavie, the senior year book, was published in its usual complete form and with professional design.

In connection with all student publications much credit should be given to advisers and governing boards for stimulating the quality of student work with a minimum of interference with student freedom.

While no meetings of the Board of Student Publications were held this year your representative has followed established precedent in gathering the necessary information for this annual report on the current status of campus publications.

Respectfully submitted,
Donald W. Davis

SENATE COMMITTEE ON EDUCATIONAL POLICY Annual Report

During the academic year we have considered the following problems and made recommendations about them as indicated below.

1. The need for a Senate Committee on Research Policy and one on Extension Policy and the appropriate size, rep. and membership of these committees. (Appendix C, October 4, 1956)
2. The standards for two-year associate degree programs (Appendix B, February 5, 1956)
3. Military instruction and related matters. (Distributed for comments)
4. The General Education Requirement of Competence in Quantitative Thinking (Appendix A, March 7, 1957)
5. The General Education Requirement of Competence in English Usage. (Appendix B, May 2, 1957)
6. Proposal to exempt seniors from final examinations under certain conditions. (Reaffirmed earlier policy.)
7. The Responsibility of the University in the Education of Women. (Appendix B, March 7, 1957)
8. Evaluation of the Television Experimental Program and its significance for the future of the University. (Will appoint a subcommittee.)
9. The Superior Student (Appendix E, June 4, 1957)
10. The Policy of Sabbatical Leaves. (No change in policy.)

The following subcommittees (with names of chairmen indicated) were appointed this year: On Courses and Curricular Offerings (B. A. Whisler); General Education (H. A. Cutler); English Competence, (J. S. Bowman); Superior Student, (R. W. Ayres); Two-year Associate Degree Program, (T. S. Oakwood); Improvement of Instruction (C. T. McNerney).

Respectfully submitted,
H. K. Schilling,
Chairman

SENATE COMMITTEE ON SCHOLARSHIPS AND AWARDS Annual Report

I. Awards Recommended by the Committee

The Committee interviewed and appraised eight applicants for the Fulbright Awards, and Professor Robert Galbraith submitted the findings to the Institute of International Education. Mr. George Weinbaum who was awarded a Fulbright Award to England had to decline because of a previous commitment for a position in industry.

Two hundred and eight (208) applicants for scholarships were reviewed by the Committee; eighty-nine (89) candidates were interviewed, sixty-seven (67) of whom have been recommended and approved by President Walker and the University Senate, and have received awards. Eighteen applicants for the John W. White Fellowships were interviewed, two of whom were selected by the Committee and approved by President Walker and the University Senate. Twelve nominations to the Honor Society Council as Evan Pugh Scholars, and a nomination for the John W. White Medal have similar-

ly been approved by the President and the University Senate. The names of the recipients of all awards have been published as part of the minutes of the University Senate.

The Committee examined the official transcripts and approved all of the one hundred forty-five (145) nominations made by the Committee on Recommendation; for Athletics Grants-in-Aid. One athletic grant-in-aid was withdrawn for the spring semester because of substandard academic performance by the student.

The chairman assisted in the appraisal of all the records of the candidates for the Hetzel Award, and served on the selection committee for the Henry H. Geist Memorial Scholarship (College of Chemistry and Physics).

II. Number of Awards Under the Jurisdiction of the Committee

The following table shows practically no change in the number of applications for scholarships to the Senate Committee on Scholarships and Awards for the 1956-57 year as compared to 1955-56. The number of scholarships handled by the Senate Committee has increased by two. In addition, two more awards (\$25 each) have been made available during the 1956-57 year. While no figures are available on the total number of scholarships granted by the University during the past academic year, if the trend of the previous years are maintained it can be seen that the Senate Committee is handling approximately sixteen per cent (16%) of the total University Scholarships.

A Comparison of the Number of Applications Received and Scholarship Granted by the S. C. S. A. and the University

	1954-55	1955-56	1956-57
* No. applications received by S. C. S. A.	137	207	203
* No. scholarships granted by S. C. S. A.	61	63	67
** No. of scholarships granted by the University	428	414	***
* S. C. S. A. exclusive of Fellowships and Medals			

** Exclusive of grants-in-aid and state senatorial scholarships

*** Not available

As in the past a large number of deserving applicants, many with scholastic averages above 3.0, were turned down by the Committee because of the lack of scholarship funds. The S. C. S. A. recommends that strong efforts be made to increase the number of scholarships available to this Committee.

III. The Administration of the Scholarship Program.

The office of the Coordinator of Scholarships under Mr. W. E. Kenworthy handled (1) the distribution and collection of all applications; (2) the acknowledgement of endorsements; (3) all inquiries from prospective applicants or from students regarding what scholarships are available. Mrs. Darlene Wolf handled efficiently the foregoing details, thus relieving the Committee of considerable clerical duties.

The helpfulness of Mrs. Royer, secretary of the University Senate, has aided the chairman greatly in arranging interviews for the candidates, mimeographing the summary sketches of each applicant, and typing letters to the recipients of awards.

Respectfully submitted,

C. C. DiIlio
Chairman

English Teachers Council Holds First Annual Meeting

The State's newest educational organization, the Pennsylvania Council of Teachers of English is holding its first annual meeting today on campus, with about a hundred teachers and supervisors attending. Topics for discussion include educational television, creative thinking, writing problems, reading skills, linguistics and grammar, and others. Dr. Paul Witty, professor of education at Northwestern University, will deliver the principal address on "The Role of Television in Modern Education."

Research Grants Received

An initial grant of \$19,883, expected to be supplemented by other grants in the next four years, has been given by the National Institutes of Health, of the Department of Health, Education, and Welfare, for research on the cariogenic properties of heat-processed foods. The work will be carried on by Dr. Mary L. Dodds, professor of foods and nutrition.

An article by Sheldon C. Tanner, professor of business law, on "Experiments in Teaching by Closed Circuit Television," appeared in the summer edition of *School and Society*.

Dr. Werner J. Mueller, assistant professor of poultry husbandry, will head a study on the effect of environment on egg quality under a \$3,000 grant by the Cooperative Grange League Federation Exchange, Inc.

A \$5,000 grant by the Quaker Oats Co. will support graduate and undergraduate research in the field of automation, in the Automation Laboratory, with Chester Linsky, associate professor of industrial engineering, in charge.

An additional appropriation of \$15,000 has been received by Dr. John F. Corso, professor of psychology, from the Aero-Medical Laboratory of the Wright Air Development Center, Wright-Patterson Air Force Base, to support work on a hearing survey now being made in the State College area.

Dr. J. V. Wright, assistant professor of mineralogy, has received a grant of \$2,500 from the National Science Foundation to study the "Exsolution in Pyroxenes."

The Dairy Breeding Research Center, with Dr. John O. Almquist in charge, has been granted \$7,969 by the Pennsylvania Association of Artificial Breeding Cooperatives to carry on the dairy breeding research program, now in its tenth year. In the past decade, the Association has given about \$127,000 to support research at the Center.

A grant of \$23,853 has been made by the Office of Naval Research to support studies in the reception of coded messages through the human skin. The studies are being made by Dr. Alec J. Slivinske, assistant professor of psychology.

Research grants totalling \$3,500 by four industrial firms have been made to aid research on fruit diseases and insecticides at the Arendtsville Fruit Research Laboratory. The four companies are: Pittsburgh Plate Glass Co., Carbide and Carbon Chemicals Co., E. I. DuPont de Nemours and Co., and The Rohm and Haas Co.

F. Cuthbert Salmon, associate professor of architecture, and his wife, Christine F. Salmon, head of the division of home art, will develop an architectural guide to rehabilitation center planning as part of a study supported by a \$46,600 grant from the U. S. Office of Vocational Rehabilitation.

A third grant has been made by the U. S. Public Health Service in aid to research by Dr. C. I. Noll, professor of chemistry and associate dean of the College of Chemistry and Physics, on a synthetic chemical compound which is effective in reducing the size of a type of cancerous tumor in hybrid mice. The one-year grant is for \$8,330.

Dr. Richard G. Stoner, associate professor of physics, has been granted a renewal of his contract with the Office of Ordnance Research of the U. S. Army for his studies on shock waves which have been going on for six years.

A one-year grant of \$2,400 by The Research Corporation will support research by Dr. Maurice Shamma, assistant professor of chemistry on the Diels Alder Condensation. He has also received a grant from the American Cancer Society to support research on the structure and physiological activity of compounds obtained from a number of plants.

Engineering Mechanics To Conduct Computer Seminar

The department of engineering mechanics will conduct a seminar this semester to instruct its faculty and graduate students in the use of the digital computer, PENNSTAC. Emphasis will be placed on programming.

D. E. Hardenbergh, associate professor of engineering mechanics, is in charge of the seminar. The first meeting will be held in 203 Engineering "A" at 4:10 p.m., Monday, Sept. 23, on the subject, "A Program for Computing Principal Stress from a Three-Element Strain Rosette."

Faculty members and graduate students of other departments are invited to attend the seminars.

They Say . . .

"A recent estimate . . . places the capital value of a university education at \$100,000, and, to realize this value, you must make a total financial investment of perhaps no more than about \$5,000. As high-school graduates, your time is worth about \$1 an hour. As a university graduate, your time today would be worth about \$3 an hour."

—President Eric A. Walker, in a talk to incoming students on Sept. 9

Appointments Announced

Dr. Paul D. Holtzman, executive secretary of the Speech Association of the Eastern States, has been named associate professor of speech. He has been instructor of speech at Queens College.

* * *

Dr. Irene E. Harms, from the Child Welfare Research Station and School of Social Work at the State University of Iowa, has been named professor of child development, effective Oct. 15.

* * *

Daniel F. Hobbs, Jr., educational specialist in the U. S. Civil Service, is a new instructor in the department of child development and family relationships.

* * *

Norma J. Duff, who has been dietetics instructor at Bryn Mawr Hospital, has been appointed instructor in hotel and institution administration.

* * *

Alida S. Hotchkiss, an investment representative and at one time assistant professor of home management at Cornell University, has been named associate professor of home management, housing, and home art.

* * *

Dr. John E. Baylor, who served as extension farm crops specialist at Rutgers University from 1948 to 1955, has been named associate professor of agricultural extension.

* * *

Dr. Roy P. Matelski and Dr. Albert S. Hunter have been named professors of soil technology and Dr. Robert P. Pfeifer associate professor of agronomy, all in the department of agronomy. Dr. Matelski comes from the University of Nebraska, Dr. Hunter from the Western Soil and Water Management Section of the Agricultural Research Service of the U.S.D.A., and Dr. Pfeifer from the University of Wyoming.

* * *

Rolv Enge, a practicing architect in California, has been named assistant professor of architecture and will teach architectural design. He is a registered architect in Norway, where he has also practiced.

* * *

Capt. John P. Roach, commander of the destroyer tender USS Shenandoah for the past year, has reported for duty as professor of naval science and head of the department, replacing Capt. Victor B. McCrea, who is now commander of a transport amphibious squadron based at Norfolk, Va.

Students Receive Vaccine

Asiatic flu vaccine was administered to students this week on a first-come, first-served basis. No provisions have been made to provide the vaccine to faculty and staff, since local physicians have or will have the vaccine available. A few staff members in sensitive spots, such as food handling, will be administered the vaccine by the University.

Items of Interest

Dr. Hugh H. Chapman, Jr., associate professor of Romance languages, served as Chairman of Comparative Literature 5 at the annual meeting of the Modern Language Association in Madison, Wis., last week.

* * *

Nora E. Wittman, assistant professor of German, reported on the progress of the American Association of Teachers of German committee on Foreign Languages in Elementary Schools at meetings of the Association and the Modern Language Association at Madison, Wisconsin, last week.

* * *

Frank W. Peikert, head of the department of agricultural engineering, was elected chairman of the North Atlantic section of the American Society of Agricultural Engineers recently.

* * *

Fifteen psychologists of the faculty participated in meetings of the American Psychological Association in New York last week. They included: Dr. C. R. Carpenter, Dr. Douglas N. Jackson, Dr. Joseph Grosslight, Dr. Robert G. Bernreuter, and Dr. Sidney Siegel, all of whom took part in the programs, and Drs. Lester P. Guest, John F. Corso, Clifford R. Adams, John F. Hall, Robert E. Stover, Alec J. Slivinske, Hugh B. Urban, Lee B. Sechrist, Jean O. Britton, and Joseph H. Britton.

* * *

Franklin H. Cook, professor of business law, delivered the opening address at the 34th annual convention of The American Business Law Association in Asheville, N. C., recently. He spoke on "The Police Powers of the States and the United States Constitution."

* * *

Dr. Ruth C. Silva, associate professor of political science, was elected national secretary of the American Political Science Association recently. The election took place at the national meetings of the Association recently, where Dr. Silva read a paper on "The Presidential Constituency and Party Alignment."

* * *

Dr. Vernon V. Aspurian and Dr. Frank Sorauf, assistant professors of political science, participated in panel discussions at the national meetings of the American Political Science Association held recently in New York.

* * *

Donald W. Davis, head of the department of advertising, Dr. Roland Hicks, assistant professor of advertising, Dr. James W. Markham, head of the department of news and editorial journalism, and Robert M. Pockrass, assistant professor of journalism, all

participated in the program of the annual convention of the Association for Education in Journalism in Boston, recently.

* * *

Dr. George E. Brandow, professor of agricultural economics, was recently elected vice-president of the American Farm Economics Association at the Association's annual meeting in North Carolina. Dr. Brandow is presently on leave as staff economist for the subcommittee on agricultural policy of the Joint Economic Committee of Congress.

* * *

Warren S. Smith, associate professor of theatre arts, will present an informal dramatic reading before the New York chapter of The Shaw Society of America, in New York on Sept. 25. He will read Shaw's "The Adventure of the Black Girl in Her Search for God."

* * *

Donald M. Cook, assistant director of the Placement Service, will be co-chairman of a group discussion on "What the College Placement Service Expects of Industry" at the annual conference of the Middle Atlantic Placement Officers Association at Pocono Manor on Sept. 25-27.

* * *

Capt. John P. Anderson, Capt. William T. Fine, Capt. Anthony R. Lentini, and Lt. Gilbert J. John, all officers of the department of military science staff, have completed a special school for officers assigned to ROTC units in universities in the Second Army area. Capt. Erwin F. Albrecht, Jr., assistant professor of military science, served on the staff of the school.

Miss Steber Will Open Artists' Series Sunday

The first program of the newly established Artists' Series will be given Sunday, Sept. 22 at 8:30 p.m. in Schwab Auditorium, with Eleanor Steber, soprano with the Metropolitan Opera Association, as guest soloist.

The Artists' Series, for which 17 programs have already been booked, is the result of the actions taken to improve cultural aspects of the students' University career. It is sponsored largely by the \$2 per semester fee added this summer with the approval of the Board of Trustees. Undergraduate students as well as graduate students who have paid the full fees of \$175 per semester will be granted the initial opportunity to obtain tickets for each program. Should any tickets remain, they will be put on sale from noon Thursday until 4:45 p.m. Friday for non-students. Price of tickets for Miss Steber's concert is \$1.75.

Albert Christ-Janer, director of the School of Arts, is chairman of the committee arranging the Artists Series.

The committee includes Dr. R. G. Bernreuter, Dr. R. W. Condee, Dr. Hummel Fishburn, R. D. Reifsnider, Georgia K. Selsam, and Woodrow W. Bierly.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Inauguration Ceremony Set For Thursday

DR. WALKER WILL BECOME 12th PRESIDENT; McGEARY TO REPRESENT FACULTY

The entire faculty and staff of the University, as well as the student body, has been invited to witness the ceremonies inaugurating Dr. Eric A. Walker as 12th president of the University.

Dr. M. Nelson McGeary, professor of political science will represent the faculty at the ceremonies, which will take place at 11 a.m. in Recreation Building. George H. Deike, president of the Board of Trustees, will conduct the simple ceremony.

Others to speak include: Eugene T. Gramley, president of the Alumni Association; Robert J. Steele, head of student government; and a representative of the office of Governor George M. Leader. Dr. Luther H. Harshbarger, University chaplain, will pronounce the invocation; George E. Ceiga, associate professor of music, will play the organ, and Frank Gullo, associate professor of music, will lead the assembly in sing-

ing the National Anthem and the Alma Mater.

Dr. Walker will give a short inaugural address.

Part of the ceremony will be the handing over of the newly created mace to Dr. Walker as the symbol of the office. The mace was designed by Dr. Edward L. Mattil, associate professor of art education, and was made from ash wood cut from a newell post preserved when the original Old Main was torn down in 1929. The post was presented by Jesse Pennington, retired utilities maintenance man, who had saved the post, intact, since he obtained it 28 years ago.

Dr. Walker took over the duties of the president just a year ago, when Dr. Milton S. Eisenhower resigned to become president of Johns Hopkins University.

More than 300 representatives of industry, government, commerce, and education have been invited to attend the ceremony and to take part in the reception to follow, in the Hetzel Union Building.

Library First Floor Is Reorganized

A general reorganization of services on the first floor of the Library has been made, according to Ralph W. McComb, Librarian.

All five reading rooms have been arranged by subject matter, and, in addition, an arts reading room is expected to open soon. Provisions are also being made for mathematics and philosophy for the new general education program.

The reorganization of the facilities, McComb explains, was made to provide improved services for students and faculty. The reading rooms include both reserve and open shelf sections.

McComb has also announced that a new handbook for faculty and graduate students is available. It will be sent upon request or may be obtained by stopping in at the Library office.

Vesper Service Sunday Features Organ Recital

George E. Ceiga, University organist, will present a recital Sunday, at 4 p.m., in the Helen Eakin Eisenhower Chapel in the first of a series of vesper services of worship which will utilize a variety of art forms as integral parts of the service.

These services will be held at stated times on Sunday afternoon throughout the year under the sponsorship of the University Christian Association with the cooperation of various departments.

This Sunday's service will be conducted by the Rev. Hal Leiper, Protestant chaplain.

The music by Ceiga will include selections from Bach, Brahms, Purvis, Sowerby, Andre Campra, and J. Francois d'Andrieu. The faculty, as well as students and general public, is invited.

Concert Membership Drive Begins Monday, Ends Oct. 5

More than 100 volunteer workers will be soliciting memberships for the State College Concert Association during the campaign that will open Monday, Sept. 30, and continue until Saturday noon, Oct. 5. Memberships are priced at \$7.

The series will present the Pittsburgh Symphony Orchestra on Nov. 19, the Roger Wagner Chorale on Apr. 8, and one or two other concerts to be determined at the close of the campaign.

Dr. Robert W. Stone and Frank T. Kocher, co-chairmen for the campaign, have announced the following campaign captains:

Agriculture, Dr. Loren D. Tukey; Business Administration, David H. McKinley; Chemistry and Physics, Dr. Robert L. Weber; Education, Rachel J. Hunter; Engineering and Architecture, Mrs. Calvin G. Reen; Home Economics, Betty M. Ray.

The Liberal Arts, Edmund H. Umberger; Mineral Industries, Dr. Hans Panofsky; Physical Education and Athletics, Mrs. Eugene Wettstone; Central Administration, Mrs. Sara E. Case; General Extension, O. Hoyt Tribble; Library, Sara S. Moyer; ROTC, Capt. Mike Kasarda; and Town, Jane Cowell and L. S. Rhodes.

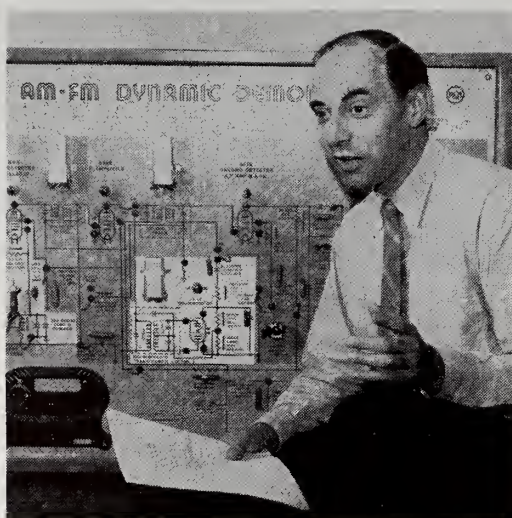
Memberships also will be available at the headquarters in the Hetzel Union Bldg.; the Athletic Store; the Harmony Shop; Keelers; and the Pennsylvania Book Shop.

Proffitt Succeeds Baker As Food Service Head

Robert C. Proffitt, manager of food stores and foods buyer since 1949, will become acting director of food service on Oct. 13, when Mildred A. Baker, presently director, will resign to enter consulting work.

Miss Baker has been director for the past ten years, during which time the department expanded tremendously as enrollment increased and more students were given food service on campus. Nearly 18,000 meals are served daily to students in campus dining halls.

Richard O. Rowlands, new associate professor of electrical engineering, was a training supervisor with the British Broadcasting Company television system until his arrival here this month.



British TV Programming Shows American Influence

FOR better or worse, admits Richard O. Rowlands, British television is moving closer to the standards of American programming. The influence of old American films is comparable in London to those of British films shown as late, late movies in American homes.

Only a month on these shores, Rowlands, now associate professor of electrical engineering, hesitates to make comparisons between television offerings in the two nations for several reasons.

"First off, my work in the British Broadcasting Company television network had nothing to do with programming," he points out.

"Secondly, we do not have the degree of commercialization in England you do here.

"Of course, the BBC now competes with a commercial network, which has been quite successful, but the effect of advertising is not as strongly felt over there.

"Finally, I haven't even seen an American television broadcast as yet."

As senior lecturer in the studio section of BBC's training department, Rowlands' work was not unlike that he is doing here. While some of the training offered was of the so-called practical nature (learning specific details of equipment), he also taught much theory.

"The BBC maintains a very active training program not only for recent high school graduates but for very much advanced students," he says. "The shortage of engineers is acute in the British Isles too."

Some of Rowlands' work was also with color television, which is being experimented with very strongly. Unlike practice in this country, the BBC is attempting to iron out most, if not all, of the bugs before attempting many telecasts. As in this country, one drawback is the cost of receivers.

Long distance transmission, particularly trans-oceanic, is still being experi-

mented with, although perhaps to a lesser degree than formerly.

"We do regularly transmit programs from the continent," Rowlands points out, "but these are received through telephone cable, except for a cross-channel radio link."

Pay television, which seems inevitable in this country, will probably never exist in England, he conjectures. The BBC, being a public corporation, has no commercials anyhow. If the one commercial network attempted pay television it would probably lose all its viewers.

"As it is," Rowlands says humorously, "the British are about as annoyed with the commercials as Americans are."

Before joining the BBC, Rowlands was employed by General Electric in its telephone works in Coventry. There he was more concerned with design and research in filters (components in electrical circuits). His teaching here will be more concerned with this phase of electrical engineering than with television.

Now reasonably settled, after a few hectic days on arrival, Rowlands and his wife and two children anticipate no difficulties in adjusting to life in State College because they lived in a town of about the same size in England. Mrs. Rowlands is interested in dramatics; his avocation has been beekeeping, which he may have to give up here.

"Not a very practical hobby for an apartment dweller," he points out. "Perhaps I'll take up television viewing in its place."

Classes Suspended Oct. 3

Faculty members are again reminded that classes on Oct. 3 will be suspended from 10:45 a.m. to 12 noon to permit students to attend the ceremony in which Dr. Eric A. Walker will be inaugurated as 12th president of the University.

Items of Interest

Dr. Simon Belasco, associate professor of Romance languages, has been appointed to the advisory and planning board of the American Library of Recorded Dialect Studies, which seeks to develop procedures to insure consistency and comparability of findings of different investigators in all spoken languages by means of standardized tape recorded interviews.

* * *

Dr. Leonard C. Fergus, associate professor of botany and plant pathology, has been appointed editor of *Phytopathology*, an international journal which is the official organ of the American Phytopathological Society. He will be editor for a three-year term starting Jan. 1.

* * *

Dr. Harry C. Fink, associate professor of plant pathology, will serve as chairman of a session on fungicides at the Northeastern section of the American Phytopathological Society on Nov. 7.

* * *

Anthony S. Luchek, in charge of the Labor Education Service, has been appointed to the Board of Directors of the newly established National Institute of Labor Education, composed of representatives of four labor unions and four representatives of colleges and universities. The purpose of the organization is to promote cooperative educational undertakings between labor and non-labor agencies.

* * *

C. R. Marsh, associate professor of electrical engineering, and his wife, Elizabeth, presented papers at the National Technical Conference of the Illuminating Engineering Society at Atlanta, recently. Marsh's paper was titled "Lighting of Highways and Turnpikes in Fog." Mrs. Marsh did the majority of the work in presenting a paper on "New Photographic Method of Measuring Brightness."

* * *

Dr. Earl P. Strong, professor of management and director of the Bureau of Business Research, conducted a three-day business productivity clinic sponsored by the College of Industrial Science and Technology, in Westminster, London, England, recently.

* * *

Harold P. Zelko, professor of speech, was elected chairman of the Business and Professional Speaking Interest Group of the Speech Association of America at its annual convention in Boston, recently. At the convention he spoke on "Current Practices in Training in Oral Communication for Business and Industry" and was chairman of a sectional meeting.

Hostetter, Clark, 14 Faculty Members With 442 Years of Service, Retire

Fourteen faculty members whose aggregate service to the University totals 442 years, and two long-time members of the administrative staff will retire Sept. 30.

Samuel K. Hostetter, who began employment in 1908 as an assistant in administration, retires with the title vice-president for finance emeritus. He served under five presidents and one acting president during his many years on campus.

Dr. Stuart W. Frost, retiring after 39 years with the title professor emeritus of economic entomology, is well known for his studies in zoology and entomology, and has headed the Pennsylvania Insect Survey for the past decade.

J. Stanley Cobb, associate professor of agronomy, came to Penn State in 1919. He was known by hundreds of farmers for his research on potato quality, and by many agriculture students for his interesting and informative lectures.

Dr. Frederick G. Merkle, widely known for his research in soils, retires after 38 years with the title of professor emeritus of soil technology.

P. Thomas Ziegler, for 37 years in the animal husbandry department, retires as professor emeritus. His book, "The Meat We Eat" has been used in many colleges, but also had wide popular appeal. Two years ago he received a plaque for "outstanding service in the field of meats" from the National Live Stock and Meat Board.

Dr. Donald S. Cryder was named to the staff of the department of chemistry in 1920, became head of the department of chemical engineering in 1948, when work in this field was organized into a separate department.

Dr. Mason Long, retiring as professor emeritus of English literature after 37 years on the faculty, is author of many books, and is remembered by students for courses in the Bible.

Dr. William F. Hall, professor emeritus of agricultural education, came to Penn State in 1921. Extremely popular with his students, he is well known to many high school teachers of the State.

Dr. John R. Bracken, who has completed 33 years of service in the field of landscape architecture at the University, and 43 years in the field generally, has been responsible for many landscape designs not only in State College but in the State as a whole.

Dr. Robert S. Kirby, after 33 years retires as professor emeritus of plant pathology extension, has had wide experience in the State in plant disease work.

Ernest W. Callenbach, who retires after 32 years with the title of professor emeritus of poultry husbandry, headed the department since 1944. Active in both teaching and research in the poultry field, he was also extremely active in affairs of the University Senate.

William R. Gordon, who joined the faculty initially in 1922, resigned in 1934, then returned in 1943. He has been professor of rural sociology extension, is well known for his development of the pageants of the State Farm Show for the past 11 years.

Russell E. Clark, who joined the administrative staff in 1936, has been at various times Bursar, Director of Housing, and lately expeditor in General Extension.

Mary Lovelace Mitchell, who joined the staff in home economics extension in 1937, is extremely popular in Chester County where she worked for 19 years. Foods and nutrition and home crafts were her major fields.

William H. Armstrong, who retires as professor emeritus of industrial engineering after 20 years on the staff, was in charge of manufacturing process courses in the department, and is the author of a textbook on "Machine Tools for Metal Cutting."

Sybil D. Emerson, professor emeritus of art education, came to Penn State in 1942 after many years in high school and college teaching, as well as in free-lance designing, decorating, painting, textile designing, writing, and other areas. Her work has been exhibited in major cities at home and abroad. She designed and directed the making of the dossal hanging behind the altar in the Chapel.

The Social Security coverage is actually retroactive to Jan. 1, 1956, or to the date of employment, if after that date. Social Security taxes for this retroactive period will be payable at a later date, probably in December or January. Employees who earned more than \$4200 in the first eight months of 1957 will pay all their tax for 1957 as part of their back tax.

Booklets explaining the plan for making the deductions and how the employee may calculate the amount of deductions are being made available.

Student Help Available For Wide Variety Of Jobs

If you're looking for someone to do house cleaning, drafting work, lawn care, baby sitting, laboratory or clerical work, or any other of hundreds of types of jobs, you may get the help you need by making use of student help available through the Student Employment Service. Call Ext. 2049.

Work Begun On Addition To Food Stores Building

Preliminary work on the addition to the Food Stores Building has begun by the contractor, Wark and Co., of Philadelphia.

The addition will consist of two floors, to provide increased storage facilities for staples and frozen foods and to provide an enlarged bakery. The present bakery facilities will be used to expand office space for food cost accounting and to enlarge meat storage facilities.

Also to be included in the addition are: storage for china, paper items, and cleaning materials; an area for a training center; and an additional shipping platform.

Chapman Named To Post

Dr. Hugh H. Chapman, Jr., associate professor of Romance Languages, was elected chairman of the Advisory and Nominating Committee of the Comparative Literature 5 group of the Modern Language Association at its meeting recently in Madison, Wis. He is also the author of a note, "Persuasion and Sweet-Talk" in the September issue of Today's Speech, edited by Dr. Robert T. Oliver, head of the department of speech.

Thuring Presents Paper

George L. Thuring, professor of industrial engineering, presented a paper on "Project Control in Engineering Development" at the annual fall meeting of the American Society of Mechanical Engineers last Monday.

Crossley Named Officer

Gilbert L. Crossley, assistant professor of electrical engineering, has been appointed Central Area Radio officer, junior deputy, for the State Council of Civil Defense. The appointment was announced by Richard Gerstell, director of Civil Defense for the Commonwealth.

Offices Closed

University offices, except those requiring a skeleton staff by the nature of the work, will be closed from 10:45 a. m. to 12 noon so that faculty and staff members may attend the inauguration of Dr. Eric A. Walker on Thursday, Oct. 3.

SS Deductions To Be Made For Many Employees

Faculty and staff members have been reminded that, for many of them, current deductions for Social Security will be made from their September salary checks.

The deductions, which will vary according to the salary will be made for all regular employees who earned less than \$4200 in the first eight months of 1957. They will also be made for employees not members of the State Employees' Retirement System.

Research Council Grants Announced

College of Agriculture

Elizabeth Smith, Correlation between the Number and Distribution of Mast Cells with the Stages of the Estrous Cycle and the Growth Rate in Bats.

College of Business Administration

J. F. Bradley, Trends in Saving in Pennsylvania; J. J. Kaufman, The Discipline Problem in Railroad Industry; V. E. Mares, Foreign Aid Program into its Second Decade — Some Special Problems Related to and Implications of our Revised Foreign Aid Program; Monroe Newman, Application of Existing Social Insurance Procedures to New Social Insurance Programs; Elton Rayack, The Effect of Union-Management Negotiated Pension Programs in the Men's Clothing Industry; A. L. Williams, The Term Buyer.

College of Chemistry and Physics

J. R. Hayes, Ion Exchange Separation of Germanium; W. A. Steele, R. E. Glick, Trial Construction of a High Efficiency Molecular Beam Apparatus.

College of Education

K. R. Beittel, Construction of a Series of Inexpensive, Demountable Raku Pottery Kilns Suitable for Public School and Camp Use; Michael Chiapetta, Level of Self-Insight in Relation to Behavioral Patterns of Teachers; J. F. Corso, Development of a Test of Art Aptitude; H. M. Davison, A Study of Shifts in Educational Offering (Quality) in Lebanon County Schools; J. P. Driscoll, Film Learning of Children with Retarded Mental Development, Chronological Ages 7-14 and Mental Ages 3-9 Years; J. F. Hall, The Learning and Forgetting of Meaningful Material; Walter Katkovsky, An Exploratory Study of Aggression.

E. T. McDonald, Analysis of the Speech of a Series of Prosthetically Rehabilitated Cleft Palate Subjects; M. A. Neuber, Analysis of Arithmetic Concepts and Skill Sequences with Adjustments for the Mentally Retarded; George Pappas, An Investigation of the Use of Polyvinyl Acetate Emulsions as Painting Media; E. V. Piers, Factors Related to Creativity ("Scientific") in Intellectually Gifted Children; W. S. Ray, The Effect of Suggestion on the Preferences of Discriminating and Nondiscriminating Judges; J. W. C. Remaley, Attitudes of College Education Seniors Toward Teaching as a Career; Lee Sechrest, Accuracy of Assessment of Personality Variables as a Function of Personality Structure.

A. J. Slivinske, Investigation of Factors Related to Physiological Stress and Electrical Activity of the Brain in the Albino Rat; W. V. Snyder, An Analysis of Relationship Factors in Psychotherapy; Development of a Theoretical Structure Regarding the Effect of Variations in the Relationship on the Quality of Therapy; R. E. Stover, J. H. Grosslight, Studies of the Effect of Early Environmental Stimuli upon the Development of Releaser Mechanisms in Trout; G. M. Torkelson, Learning from Still Pictures by Children with Retarded Mental Development, Chronological Ages 7-14 and Mental Ages 3-9 Years; D. H. Veon, Recent Developments in Business Education in Austria; Sidney Siegel, Decision Making Theory and Personality; D. N. Jackson, Studies in Cognitive Style; M. L. Zeigler, Development and Validation of Occupational Scales for the Strong Vocational Interest Blank.

College of Engineering and Architecture

G. L. Crossley, Vertical Radio Antenna for Variable Frequency Applications (Broad Bands Antenna); L. W. Hu, Creep of Metals Under Varying Stresses; Sam Shulits, Eddy Viscosities in Open Channels.

College of Home Economics

J. H. Britton, Child Rearing Practices and Attitudes of Parents of Pre-School Children; W. L. Morgan, Child Rearing Practices and Attitudes of Parents of Children in Nursery School; R. L. Pike, The Effect of Maternal Diet Upon the Production of Congenital Malformation in Rats; W. M. Smith, Family Organization and Control: An Analysis of Student Autobiographies; M. E. Starr, Effects on Personality Development of Multiple Mother-Nurse Figures During Childhood.

College of The Liberal Arts

Helen Adolf, Grail Legends, East and West; J. M. Anderson, The Idea of the Individual in Contemporary Culture; E. Atwater, Current Problems in American Foreign Policy; R. D. Ayoub, The Dedekind Zeta Function and Consequences to Number Theory; and Treatise on Analytic Number Theory; Simon Belasco,

An Introduction to Comparative Romance Linguistics; D. W. Bleznick, Rhetoric in Renaissance and Golden Age Spain; W. E. Boyer, Pennsylvania German Folk Art; R. W. Brewster, Administrative Law of the European Community for Coal and Steel; I. V. Brown, Joseph Priestley: An Anthology of His Writings; R. S. Brubaker, The Effect of Signal to Noise Ratio and Spectra in the Perception of Vowels.

A. F. Buffington, The Pennsylvania German Dialect and Folklore; H. T. Colbourn, The Historical Origins of American Independence; Malcolm Freiberg, An Edition of the Letter Books of Thomas Hutchinson (1711-1780), and A Biography of Thomas Hutchinson; T. V. Gilpatrick, The Midwest Farm Vote and Agricultural Price Support Policy; B. R. Jerman, Sara Austen's Great Friend; Disraeli and a Woman; P. S. Klein, Life of James Buchanan; L. T. Lee, Recent Developments in Consular Law and Practice; Laurent LeSage, Analysis and Description of Techniques in Contemporary French Literary Criticism; A. O. Lewis, P. A. Shelley, Publication of Volume Two of Anglo-German and American-German Cross-currents; J. W. Markham, A Study of Performance of a Sample of Pennsylvania Daily Newspapers in Handling the News of the 1956 Presidential Election Campaign.

E. T. McDonald, B. M. Siegenthaler, Figure Ground Auditory Tests for Brain Injured Children; J. A. Mourant, The Function of Prime Matter in the Thomistic Conception of Man; R. K. Murray, The Turbulent Years: American Democracy at the Crossroads, 1893-1897; P. F. Norton, The Architecture of B. H. Latrobe, a Critical Study; J. F. O'Brien, A Comparative Analysis of the Sources and Methods of America's leading Lay Parliamentarians; Neal Riemer, Studies in Modern Democratic Thought; S. H. Rosen, The Polis as an Ontological Category in Greek Thought; Marvin S. Schindler, The Religious Beliefs and Philosophy of Hafiz of Shiraz as Contained in his *Divan* and their Significance for German Literature.

R. C. Silva, The Presidential Constituency and Party Alignment, and Presidential Disability; G. R. Smith, Preparation of a Classified Bibliography of Books and Articles on and Editions of Shakespeare from 1936 through 1956; F. J. Sorauf, The Separation of Powers Today; C. C. Spence, The Post-War Careers of Civil War General Officers; G. A. Theodorson, Differential Familial Role Expectations of Males and Females; Stanley Weintraub, The Uncollected Musical Criticism of Corno di Bassetto (George Bernard Shaw); W. R. Weisman, Continuation of Research for book on *Origins of the Skyscraper*; N. E. Wittman, The Introduction of Modern Languages (Especially German) in the Elementary Schools of Pennsylvania; E. W. Zoller, Encaustic as a Painting Medium.

College of Mineral Industries

G. F. Deasy, A Geographical Analysis of the Electric Generating Industry of Pennsylvania; P. R. Griess, The Adverse Economic Effects of Nationalization of the Bolivian Tin Mining Industry; L. F. Herzog, Geological Age Determination by Measurement of ⁸⁷Sr Variation in Limestone; Rustum Roy, Effects of Neutron and Proton Radiation in Catalyzing or "Displacing" Subsolidus Polymorphic and Order-Disorder Reactions; S. C. Sun, Magnetic Properties of Minerals; J. B. Wagner, The Diffusion of Lead and of Sulfur in Lead Sulfide; F. L. Wernstedt, Agriculture and Climatic Years in the Great Basin of the United States; H. D. Wright, Investigation of Phase Relationships and Water Solubilities in the System Ag-Cu-S; G. J. Young, Effective Area Occupied by Physically Adsorbed Molecules.

College of Physical Education and Athletics

D. B. Swegan, Variations in Blood Lactate Concentration During Exercise.

Tickets Available Today For George London Program

Tickets for the concert by George London, bass-baritone, will go on sale today to non-students from 9 a.m. to 12 noon and 1 to 5 p.m. at the Hetzel Union Building desk. They are priced at \$1.75, and will also be sold on Monday, September 30, during the same hours.

The program by London, second of the students' Artists' Series, will be given on Tuesday, Oct. 1, at 8:30 p.m. in Schwab Auditorium.

Calendar

Friday, Sept. 27

Graduate School convocation and dance-mixer. Convocation in Schwab Auditorium, 7:30 p.m., with Dr. Putnam Fennell Jones, dean of the graduate school of the University of Pittsburgh, as speaker. Dance-mixer follows in Hetzel Union Building.

Meeting of the College of Agriculture, 4:10 p.m., 109, Armsby Building.

Sunday, Sept. 29

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

University Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Charles D. Spotts, head, department of religion, Franklin and Marshall College.

UCA vesper services, 4 p.m., Helen Eakin Eisenhower Chapel. Organ Recital by George E. Ceiga.

Monday, Sept. 30

Faculty meeting, College of Physical Education and Athletics, 7 p.m., 241 Recreation Building.

Engineering mechanics seminar, 4:10 p.m., 203 Engineering "A". Continuation of discussion on "A Program for Computing Stress From a Three-Element Strain Rosette," with D. E. Hardenbergh, in charge.

Faculty Luncheon Club, 12 noon, Dining Room "A", Hetzel Union Building. Dr. R. J. Bernreuter on "Counseling Freshmen."

Tuesday, Oct. 1

Philosophy Colloquium, 4 p.m., 236 Sparks. Dr. Henry Johnstone, associate professor of philosophy, on "Formal Systems and Ontological Systems."

Meeting of the Society of Sigma Xi, 8 p.m., 119 Osmond Lab. Dr. Alan T. Waterman, director of the National Science Foundation, on "Foundation Fellowships and Grants."

Vesper Services of Worship, 4:30 p.m., The Chapel. The Rev. R. N. Williams, in charge.

Seminar on Digital Computer Applications, 4:10 p.m., 209 Willard Building. Donald T. Laird on "Some Matrix Methods for Computers."

Meeting of Beta Chapter, Phi Sigma Society, 7:30 p.m., 113 Frear Lab. Dr. Edwin Cooper, associate professor of zoology, the speaker.

Artists' Series, 8:30 p.m., Schwab Auditorium.

Wednesday, Oct. 2

Slavic Club meeting, 7:45 p.m., 317 Willard Building. Dr. Allan Rodgers, associate professor of geography, on "Soviet Central Asia Today," with colored slides.

Thursday, Oct. 3

Inauguration Ceremonies for Dr. Eric A. Walker, 11 a.m., Recreation Building.

Faculty meeting, College of Home Economics, 4:10 p.m., Room 14, Home Economics.

Vesper Services of Worship, 4:30 p.m., The Chapel. Services in charge of the Reformed Church.

Friday, Oct. 4

Physics Colloquium 4:10 p.m., 119 Osmond Lab. Dr. K. R. Atkins, professor of physics, University of Pennsylvania, on "Flow of Liquid Helium II."

Teachers Begin Year-Long Science Training Program

More than 50 teachers, from 16 states and the District of Columbia, have begun a year-long program to further their training in scientific fields sponsored by the National Science Foundation.

Many of the teachers have moved into the area with their families. Twenty-six are Pennsylvania residents.

Special courses and seminars have been organized in the Colleges of Agriculture, Chemistry and Physics, Education, the Liberal Arts, and Mineral Industries. The aim of the program is to help the teachers advance their own knowledge of the latest in scientific developments.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Three County Agents Will Be Honored By Association

Three county agents, who will retire soon with services totalling 103 years, will be honored with distinguished service awards from the National Association of County Agricultural Agents on Oct. 17.

William H. Davis, Pike County agent, Harry S. Sloat, associate county agent in Lancaster County and president of the Pennsylvania County Agents Association, and Archie C. Rockwell, Elk County agent, will be honored during the Association's annual convention in Boston, Mass.

All three are graduates of Penn State. Sloat will have nearly 37 years of service when he retires on Oct. 31; Davis will lack a month of 36 years; and Rockwell has completed 30 years of service.

R. H. McDougall, Butler County agent, who is national president of the Association, will confer the honors. Dr. H. R. Albrecht, director of agricultural extension, will appear in a panel discussion at the meeting.

Earth Satellite Display Oct. 8 in Min. Ind. Bldg.

A full-scale model of an earth satellite and 1/25 scale model of the launching rocket will be on display in the afternoon of Tuesday, Oct. 8, in connection with the meeting of the American Society for Metals. The display will be set up in the rotunda of the Mineral Industries Building and in the evening in the Mineral Sciences Auditorium.

The meeting, at 7:30 p.m., will feature Alex Simkovich, U.S. Naval Research Laboratory, who will discuss "The Earth Satellite."

Faculty Directories Ready

Copies of the faculty directory, listing office and home addresses and telephone numbers, as well as titles of faculty and staff members, are now available. They may be purchased at the office of the recorder, Room 4, Wilard Hall.

Parking For Football Games Restricted; Area Opened

Construction projects now in progress have further restricted the parking space available previously on a temporary basis for football contests.

Because of these limitations, the area south of the Forestry Building will be opened to parking for football games. This area, advises Walter H. Wiegand, director of Physical Plant, will soon be torn up when construction of the new Petroleum Refining Laboratory begins.

The area on the south side of the golf course is no longer open to parking because of construction of the addition to the Food Stores Building. Also, the area at the intersection of Shortlidge Road and Park Ave. is now being torn up by construction of the new men's residence halls.

Faculty and townspeople have been urged to leave the cars at home on football weekends in so far as possible to alleviate the parking problem.

ACS, API Grants Made For Chemical Research

Grants totalling \$55,600 to support research in chemistry by Dr. Joseph H. Dixon, associate professor of chemistry, have been made by the American Petroleum Institute and the American Chemical Society.

The API grant of \$48,000 marks the beginning of the 17th year of research on a fundamental study of the synthesis and properties of high molecular weight hydrocarbons.

A grant of \$7,600 by the Petroleum Research Fund of the American Chemical Society supports a basic study on the nuclear magnetic resonance spectra of hydrocarbon molecules.

No Grad School Meeting

There will be no meeting of the Graduate School Faculty in October. The next meeting will be held on Nov. 21. Normally, a meeting would be held on Oct. 17.

Graduate School Announces Complete Lecture Series

The Graduate School Lecture Series for 1957-58 will be inaugurated Wednesday, Oct. 23, with a discussion by Dr. William Heard Kilpatrick, distinguished American educator.

Dr. Kilpatrick, long associated with Columbia University Teachers College, will speak on "Modern Education: What It Stands For and Why," at 8 p.m., in Room 121, Sparks Building.

Other speakers for the lecture series include:

Nov. 12, Dr. Dexter Perkins, eminent historian, on "The Foreign Policy of the United States Today."

Nov. 13, The Honorable Walter H. Judd, Congressman from Minnesota, member of the House Committee on Foreign Affairs, on "A Reappraisal of Foreign Affairs."

Feb. 11, Dr. William D. Turner, former dean, The School of Social Work, University of Pennsylvania, on "Social Work In a Dynamic World."

Mar. 3, Dr. H. Bentley Glass, professor of genetics, Johns Hopkins University and recent past president of the American Institute of Biological Sciences, on "New Horizons in Human Genetics."

Apr. 14, Dr. Otto A. Will, director of psychotherapy, Chestnut Lodge, Rockville, Md., on "Human Relatedness and the Schizophrenic Reaction."

Behrend Center Receives Record \$750,000 Bequest

A bequest of \$750,000 in cash and securities — largest single grant in the history of the University — has been made from the estate of the late Dr. Otto F. Behrend, of Erie.

The grant has been made to the Behrend Center, named for the late Ernst R. Behrend, brother of Dr. Otto Behrend, whose widow gave the 400-acre tract of land and buildings for the Center.

The brothers were founders of the Hammermill Paper Co.



In charge of the counseling program of the men's residence halls is William B. Crafts, assistant to the dean of men, talking over semester plans with the two head counselors, Tom Williams, center, and Champ Storch.

Residence Hall Counselors Represent University Well

WALKING a thin line as the representative of the University administration but also as a friend and guide of the students is the sometimes ticklish assignment of 37 residence hall counselors and two head counselors.

The counselor system created by the office of the Dean of Men has had its vicissitudes in its decade of existence, perhaps the greatest being that it has been little understood by faculty and students alike.

There are many things residence hall counselors are *not*. They are not policemen, for example, although in many respects they do help to keep order. They are not academic advisers, although they help individual students with academic problems in numerous ways. Again, they are not psychologists or personal advisers, because they don't have the background for such advising, although there are times when students come to them for advice on personal matters.

Fourth, they are not buddies or big brothers to the students because a person put in this position probably won't do what is in the best interests of the student.

These 37 counselors, who are given an orientation program by the Dean of Men's office before the school year begins, live with anywhere from 40 to 110 students. They are students themselves, either graduate students or upperclassmen, all of them more mature

than the average, screened for their personality and many other traits, and all of them above average students.

One of their major tasks, especially difficult in the freshman areas, is in organizing their students to do things for themselves, to police themselves, and to develop a feeling of really belonging to Penn State.

There is no intention of passing on to the students responsibilities they are not capable of handling. This method simply recognizes a time honored problem—how to best develop in large groups of male students (no longer guided by their parents) the maturity they must have to make the most of their college days.

In the Dean of Men's office, William B. Crafts, assistant to the dean, is in charge of the counselor program. He points out that the period at the beginning of the school year is the most difficult because then the counselors must get acquainted in a hurry with their students and help them set up an organization which will function throughout the year.

"If it isn't done very early in the year," he points out, "We may not only have a number of untoward incidents but also a feeling among the students that they are simply little cogs in a big piece of machinery, and that the University doesn't particularly care about them personally. Nothing could be worse for scholarship or student morale.

The units (individual halls in Nit-tany and Pollock areas, living units in West Halls) elect a slate of four officers. To get affairs rolling early in the year, the counselors select temporary officers to organize the group, hold meetings, and schedule activities. After the students are better acquainted, permanent officers are elected, but frequently these are the same students whom the counselor had selected for temporary positions.

"It is obvious that the counselor's early judgment may have considerable effect on the unit for the entire year," Crafts points out.

These officers, and whatever committees may be appointed, then have many responsibilities in organizing unit activities, regulating conduct, and representing the students. Units have "quiet hours" for study, generally from 7:30 p.m. to 7 a.m., which the students are encouraged to police themselves. They also have sports programs, or other organized activities, which the counselor will try to promote.

The counselors, in spite of full programs of study of their own, are available to individual students or groups about 40 hours a week. They try to limit "bull sessions" but their doors are open to students who want to discuss personal problems. In many cases the counselor's main help comes in knowing, and advising, where help can be obtained on campus.

"To deal with a range of problems," Crafts points out, "counselors need to have an intimate knowledge of campus offices and staff. We make a specific point of orienting them to the services the University offers the student."

The counselor is faced with a tough responsibility in relation to student conduct. On the one hand, he can't possibly be the policeman at all hours in a unit; on the other, he must attempt to develop such attitudes that good conduct is second nature to his students. In some cases he has no choice but to report certain phases of conduct to the Dean of Men's office. The unit as a whole is responsible for damage to University property if the responsibility for that damage cannot be placed on one or a few individuals.

The considerable success of the program probably stems from a number of causes: good choice of counselors, the varied nature of the services provided by the University, the supervision of the Dean of Men's office and of the two head counselors, and perhaps a growing awareness of students that four years is a short time in which to grow up.

The turnover in counselors each year presents a real problem. This year 25 new counselors were needed, and they were selected from among 125 applicants. In return for their services they receive only room and board, but for some the position is a stepping stone to careers. One ex-counselor is now assistant dean of men at Texas Tech; another heads the entire counseling service at a junior college.

Items of Interest

Dr. George L. Leffler, assistant dean in the College of Business Administration, is the author of a recent article appearing in Barron's Financial Weekly, on "Stock Rights." The article dealt with the timing of the sale of stock rights to obtain the highest profits.

★ ★ ★

Dr. Arthur H. Waynick, director of the Ionosphere Research Laboratory, and Dr. Erwin R. Schmerling, assistant professor of engineering research, participated in the recent 12th International Assembly of the International Scientific Radio Union. Dr. Sidney A. Bowhill, assistant professor of electrical engineering, also attended the meeting.

★ ★ ★

Dr. Joseph Marin, head of the department of engineering mechanics, will present a talk on "Recent Developments in the Study of Mechanical Properties of Materials" before the Philadelphia Section of the American Society of Mechanical Engineers on October 15.

★ ★ ★

Dr. Alec J. Slivinske, assistant professor of psychology, was invited by the Office of Naval Research, to attend the Fifth Annual Human Engineering Conference, Sept. 26-27, in Tulsa, Oklahoma.

★ ★ ★

Two articles by Dr. George Pappas, assistant professor of art and art education, have recently appeared in print. "Clay in the Primary Grades" is in the September issue of "School Arts" magazine and "Ceramics Teaching in American Colleges" in the "College Art Journal."

★ ★ ★

Dr. Dorothy Houghton, assistant dean of the College of Home Economics, will address the homemaking session at the Central District 32nd Annual Convention of the Pennsylvania State Education Association at Lock Haven today. Ann D. Schultz, assistant professor of home economics education, will preside at the homemaking session.

★ ★ ★

Dr. Clifford C. Wernham, professor of plant pathology, has received renewed grants from the Eastern States Farmers Exchange to continue his studies on corn stalk rot. The studies have been going on since 1950.

★ ★ ★

Dr. Harold I. Tarpley, professor of electrical engineering and director of computer facilities, has been invited to address an international conference sponsored by the French government in Paris on Oct. 14-18. His talk will be on "Information Days," concerning the use of electronic computers and the trend in training engineers in the United States.

Dr. Robert D. Pashek, associate professor of transportation, has been admitted to practice before the Interstate Commerce Commission.

★ ★ ★

Dr. Grant W. Smith, professor of chemistry, has been named chairman-elect of the division of chemical education of the American Chemical Society.

★ ★ ★

Dr. George U. Oppel, professor of engineering mechanics, has received a research grant of \$14,000 from the U. S. Navy Department to support work in the development of a new type of photo-elastic strain gage and its application to stress analysis of structural and machine members.

★ ★ ★

Viktor Lowenfeld, head of the department of art education, is co-author a book "The Good Education of Youth" recently published by the University of Pennsylvania Press, with a contribution of a chapter on "Art." His article on "Art and the Preschool Child" appears in the October-December issue of "Growing."

★ ★ ★

Ralph H. Wherry, professor of insurance and head of the department of commerce, was a guest of the Pennsylvania Association of Insurance Agents at their 68th annual convention at Pocono Manor earlier this week.

Frederick Available For Patent Matter Assistance

Faculty members are reminded that M. E. Frederick, registered attorney and patent counsel for the Ordnance Research Laboratory, is available on a part-time basis to consult with members of the faculty regarding patent problems.

Frederick is glad to discuss and advise whether a development is patentable, how invention disclosures should be prepared, and other matters concerning the disclosure, preparation and forwarding of an invention disclosure.

He may be contacted at Ext. 2303.

Films Listed For Preview

Materials listed below have been requested. Please call Extension 2051 and give code number of those you would like to see. We will notify you when they arrive so that you can arrange a preview showing in Room 9, Library.

- S-1 Introduction to Jazz
- S-2 Fossils: Clues to Prehistoric Times
- S-3 The Potter
- S-4 Helping Johnny Remember (human relations)
- S-5 Hiking Is Fun
- S-6 Beginning Music Reading
- S-7 Strangers (alerting children against advances of strangers)
- S-8 Exceptional Children
- S-9 Human Factor in Driving
- S-10 Education in Modern Turkey
- S-11 A City Decides (integration in St. Louis)
- S-12 The Saxophone
- S-13 Gregory Learns to Read
- S-14 Child in the Middle (roles of parents and teachers)
- S-15 Out of the Shadows (mental illness)
- S-16 Heart of England (Cotswold Country)
- S-17 Swan of Avon (biography of Shakespeare)
- S-18 Stratford-on-Avon
- S-19 That the Deaf May Speak (Lexington School for the Deaf)

Vesper Services Scheduled Weekly on Tuesday, Thursday

Vesper services at 4:30 p. m. each Tuesday and Thursday will be conducted by the office of the Chaplain this semester in the Meditation Chapel of the Helen Eakin Eisenhower Chapel. The services are open to the general public.

Faculty members representative of all denominations and faiths will give the meditation at the Tuesday service, with Rev. Preston N. Williams, assistant University chaplain, as presiding clergyman.

On Thursday, the services will be conducted according to the form of worship of the several religious traditions on campus. The aim of this service is to broaden and deepen the faith of the worshiper by giving him an opportunity to become acquainted with the distinctive patterns of worship of the Jewish, Catholic and Protestant churches.

The Chapel Choir, under the direction of Willa C. Taylor, will provide the music for the services.

New Bus Available For Departmental Group Use

Reservations for the use of the new 37-passenger bus acquired by the University recently should be made at least two weeks in advance of the proposed trip, Ossian R. MacKenzie, vice-president for business administration, has advised.

The bus, with a trained driver, will be available to departments on a rental basis for large group trips.

Requests for all vehicles of the Transportation Division, including any of the fleet of over 40 passenger cars and stations wagons, should be made to the Division (Ext. 2604) on an inter-departmental transfer form. Requests for station wagons or passenger cars should be made a week in advance of the proposed trip.

MacKenzie also points out that the services of the Division include travel planning, by train or plane, and making of hotel reservations. The following information is needed for this planning: type of transportation preferred, time and date of arrival at destination, time and date starting home; and hotel accommodations, if needed. When feasible to do so, requests should be made at least 10 days in advance of the trip, in writing.

Hospital Designated As Student Health Center

The hospital and dispensary operations of the University, are now known as the Student Health Service. Dr. Herbert R. Glenn, who is in charge of the operations, now has the title of director of the Health Center.

The hospital is recognized as an approved hospital by the American Hospital Association.

Dr. Walker Conferred Title Of Prexy By Student Body

The title of "Prexy" was conferred on President Eric A. Walker Wednesday evening, prior to his inauguration yesterday.

As explained by All-College president Robert Steele, who conferred the title, only the students can designate the holder of the office of the president as "Prexy" in keeping with a tradition established many years ago.

The tradition dates at least from the days of President George W. Atherton, seventh president from 1882 to 1906, who was known variously as "Prex" or "Prexy", if somewhat unofficially.

Dr. Atherton's successor, Edwin Erle Sparks, was given the sobriquet early in his career and later was presented with a watch by appreciative students inscribed with the words "To Our Prexy From The Boys." He wore this watch when he died, in 1924, four years after he resigned from his post as president because of ill health.

The first official presentation of the title of "Prexy" was held at Class Day Exercises in 1927 when Dr. Ralph Dorn Hetzel, tenth president, was invested by a committee of students who escorted President Hetzel to the rostrum of Schwab Auditorium for the ceremony.

Four years later, the alumni, during Homecoming Day events, and as part of the 75th anniversary of the University, also conferred the title of "Prexy" on Dr. Hetzel. At that time he described the events leading up to the students' ceremony.

In the fall of 1926, after he had been elected president of Penn State but while he was still at the University of New Hampshire, Dr. Hetzel received, through the mail, a copy of the "Collegian," student newspaper. Encircled on the editorial page was a welcome to him but also the admonition that although the trustees had elected him president, the title of "Prexy" could only be given by the students after he had shown that he earned the title.

Dr. Milton S. Eisenhower was also conferred the honorary title nearly a year after he arrived on campus. At the first Honors Day ceremony on May 2, 1951, Robert Davis, All-College president, presided, and pointed out that only the students have the privilege of dubbing the president as "Prexy." Dr. Eisenhower was also presented with a silver tray and a stop watch.

In making the presentation to Dr. Walker, Steele also presented him with a scroll which cites the designation.

Next Student Artist Series Program By Brubeck, Oct. 20

The next program on the Student's Artists Series will be given by jazz stylist Dave Brubeck on Sunday, Oct. 20. Succeeding programs will be given by the Hungarian Quartet, on Nov. 4, the Dancers of India, Nov. 16, Ballet Theatre, Nov. 24, Erica Morini, Jan. 9, in the first semester.

Laundry Group To Meet On Research Problems

Several faculty members will participate in the annual meeting of the Institutional Laundry Control Research Program from Wednesday, Oct. 9, to Friday, Oct. 11.

The meeting is sponsored by the State Departments of Welfare, Public Instruction, Justice, Health, Military Affairs, and the University.

Dr. Grace M. Henderson, dean of the College of Home Economics, will welcome the representatives of state and private hospitals and other institutions.

Dr. Joseph F. Krawiec, assistant professor of clothing and textile research, will present the annual report of the laundry control research program and the results of tests which have been carried on at the Ellen H. Richards Institute.

Dr. Ruth Ayres, head of the department of clothing and textiles, will moderate a panel on Commonwealth specifications.

Paul S. Beaver, supervisor of management training in General Extension, will also talk during the three-day conference, which will be held in the Extension Conference Center.

U.S. Health Service Grants Aid Teacher Training

Three grants totaling \$41,622 have been received from the United States Public Health Service for a one-year period to support the teacher training and general training program in clinical psychology. The grants are supervised by Dr. William U. Snyder, professor of psychology and director of the Psychological Clinic at the University.

The largest of the three grants, \$18,800, is being used to finance seven traineeships in clinical psychology. They are given highly-qualified graduate students and the stipend ranges from \$2,000 to \$2,800 per year.

The second grant, \$15,802, aids the teaching and research facilities of the Psychological Clinic. It permits the hiring of a full-time teacher, Dr. Douglas Jackson, assistant professor of psychology, thus releasing three professors for quarter-time research work. Working on research projects are Dr. Snyder, and Dr. G. M. Guthrie and Dr. Leon Gorrow, associate professor of psychology.

Under this grant, the clinic also has been able to hire a social worker, Mrs. Ruth Newman, who has her master of social work degree from the University of Illinois, and additional clerical help.

The third grant, for \$7,020, continues its support of the training of Dr. Hugh B. Urban, who last year was given a post-doctoral appointment for teacher training in clinical psychology.

Senate Meeting Thursday

The University Senate will meet on Thursday, Oct. 10, at 4:10 p.m. in the Assembly Room of the Hetzel Union Building.

Calendar

Friday, Oct. 4

Fluid Mechanics seminar, first of a bi-weekly series, 4:10 p.m., Room 1, Sackett Building. Dr. William E. Ranz, professor of engineering research, on "Electrical Devices for Measuring the Velocity and Turbulence of Flowing Water."

Physics Colloquium, 4:10 p.m., 119 Osmond, Dr. K. R. Atkins, professor of physics, University of Pennsylvania, on "Flow of Liquid Helium II."

Mineral Industries Colloquium 4:15 p.m., Mineral Sciences Auditorium. Dr. Phyllis R. Griess, associate professor of geography, on "Changes in the Localization of Coal Strip Mining in Western Pennsylvania."

Saturday, Oct. 5

Football, versus Army, 1:30 p.m., Beaver Field.

Roman Catholic Mass, 6:30 a.m., Helen Eakin Eisenhower Chapel.

Soccer, versus Maryland, 10 a.m.

Sunday, Oct. 6

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. The Rev. George Bean, Chaplain, U.S. Military Academy, West Point, N.Y.

Annual Liberal Arts tea, 3 to 5 p.m., lounge of the Helen Eakin Eisenhower Chapel.

Monday, Oct. 7

Engineering mechanics seminar, 4:10 p.m., 203 Engineering "A". Continuation of discussion on "Determination of Principal Stress From a Three-Element Rectangular Rosette," with D. E. Hardenbergh, in charge.

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Capt. Karl H. Van D'Elzen, U.S. Military Academy, West Point, N.Y., on "From Japan To West Point," illustrated with colored slides.

Meeting of the American Society for Metals, 7:30 p.m., Mineral Sciences Auditorium, with Alex Simkovich, U.S. Naval Research Laboratory, on "The Earth Satellite."

Tuesday, Oct. 8

Vesper service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Dr. H. W. Frings, professor of zoology, in charge.

American Society for Metals meeting, 7:30 p.m., Mineral Sciences Auditorium. Alex Simkovich, U.S. Naval Research Laboratory, on "The Earth Satellite."

Digital Computer Applications Seminar, 4:10 p.m., 209 Willard Building. James B. Bartoo, associate professor of mathematics, on "Multiple Regression Analysis on PENNSTAC."

Thursday, Oct. 10

Vesper service, Helen Eakin Eisenhower Chapel, 4:30 p.m., John Henry Frizzell, chaplain emeritus, on "Some Thoughts on Growing Older."

Joint Physics, Mechanical Engineering, and Engineering Research Colloquium, 4:10 p.m., 117 Osmond. Dr. Wolfgang Leidenfrost, Institute of Technology, Braunschweig, Germany, on "Influence of Electron Field on Heat Transfer Field."

Senate meeting, 4:10 p.m., Assembly Room of the Hetzel Union Building.

Frizzell To Present Thursday Vespers

John Henry Frizzell, chaplain emeritus of the University, will lead the regular vesper service in the Helen Eakin Eisenhower Chapel on Thursday, Oct. 10, at 4:30 p.m.

He will speak on "Some Thoughts on Growing Older."

The occasion marks Frizzell's 76th birthday. Coming to the campus in 1908, he served as instructor of rhetoric and oratory and as assistant professor and associate professor of English, until 1920.

Returning to the campus in 1926, he became associate professor of public speaking, and in 1935 was named head of the department of speech.

He retired in 1946, but has remained quite active.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Promotions, Other Changes Approved by Trustees

Two assistant deans have been named associate deans in their respective colleges by the Board of Trustees. Both appointments are effective Oct. 4.

Dr. John D. Lawther, assistant dean in charge of resident instruction in the College of Physical Education and Athletics has been advanced to associate dean.

Dr. Abram W. Vandermeer, assistant to the dean of the College of Education, has also been named associate dean.

Other changes approved by the Board at its meeting last week include:

Dr. Lawrence E. Fouraker, associate professor of economics, to professor of economics, effective July 1.

Dr. Vernon V. Aspaturian, assistant professor of political science to associate professor, effective July 1.

Dr. Eugene S. Lindstrom, assistant professor of bacteriology to associate professor, effective Oct. 4.

Earl R. Bordner, assistant professor of physics to associate professor.

Dr. Charles G. Haas, Jr., assistant professor of chemistry to associate professor, effective Oct. 4.

Joseph L. Staley, associate county agricultural agent in Wayne County to county agricultural agent in Pike County, Nov. 1.

James K. Rathmell, Jr., assistant professor of horticulture extension to associate professor of floriculture extension, Nov. 1.

M. Carolyn Bedi, assistant extension home economist to associate extension home economist in Perry County, Sept. 16.

Dr. Douglas G. Schultz, associate professor of psychology and assistant administrative head, Southeastern area, to associate professor of psychology and research associate in the Division of Counseling, Dec. 1.

O. Hoyt Tribble, associate professor of psychology to coordinator of workshops in General Extension and associate professor of psychology, July 1.

Leon R. Kneebone, associate professor of botany to associate professor of botany and plant pathology, Oct. 4.

Total Enrollment Figures Released By Admissions

A total of 14,131 full-time and part-time undergraduate, graduate, and special students are attending classes on campus this semester, enrollment figures released this week by Dr. C. O. Williams, dean of admissions and registrar, show.

The data, summarized on pages 2 and 3 of this issue of the Faculty Bulletin, also reveal that 19,265 students are attending Penn State on main campus, at the centers, and at Mont Alto. The total includes nearly 2000 students enrolled in part-time extension classes as undergraduates or graduates at the centers.

The full-time undergraduate enrollment on campus and at the centers and Mont Alto totals 15,212 and the full-time graduate total is 550. The part-time undergraduate enrollment is 1997 and the part-time graduate is 1506.

The total figures show that 14,310 men are attending Penn State and 4955 women.

Dr. Michelson Named Head Of Aeronautical Engineering

Dr. Irving Michelson, specialist in aerodynamics, acoustics, and space flight, has been named professor and head of the department of aeronautical engineering.

The appointment was approved by the Board of Trustees at its meeting last weekend. Dr. Michelson will fill the post made vacant by the death of Harold M. Hipsh, on May 23.

Dr. Michelson was president of Odin Associates, Pasadena, Calif., an engineering research organization he founded in 1954 to do advance studies for military agencies and missile developers.

A graduate of Georgia Tech, with a bachelor of science degree in aeronautical engineering, Dr. Michelson earned master of science and doctor of philosophy degrees at California Institute of Technology.

AAUP To Hear Student Panel On Improving Teaching

The first local chapter meeting of the American Association of University professors will be held on Monday, Oct. 14, at 7:30 p.m. in the Mineral Sciences Auditorium.

The meeting will feature a panel discussion on "How to Improve College Teaching." Graduate students will make a critical appraisal of college teaching, viewed from their experience as undergraduates.

Dr. Hugh S. Brown, professor of education, will be chairman of the panel.

Dr. Walker's Inauguration Speech To Be Printed

A special supplement of the Faculty Bulletin will be issued next week to provide the faculty with a printed copy of the speech given by Dr. Eric A. Walker at his inauguration on Oct. 3.

Bernstein To Lecture On Chess Playing Computers

Alex Bernstein, programming research department of the International Business Machines Corporation, will lecture on "Chess Playing and Learning for Digital Computers," before the meeting of the Central Pennsylvania Section of the Society for Industrial and Applied Mathematics on Thursday, Oct. 17, at 8 p.m. in Room 214, Willard Hall.

Bernstein, a graduate of City College of New York, was associated with computers while with the Armed Services, and contributed to a mathematical evaluation of defense system efficiency.

Joining the Service Bureau Corporation in 1956, he worked on problems of automation and developed a chess-playing routine which is now complete. Since transferring to his present position this year he has been working on the problem of programming a computer to learn.

Registrar Reports on Total Campus Enrollment for Fall Semester, 1957-58

	1 Sem	2 Sem	3 Sem	4 Sem	5 Sem	6 Sem	7 Sem	8 Sem	Total
AGRICULTURE									
ABCh	12	2	5	—	6	—	12	—	37
AERS	17	—	13	—	7	3	8	4	52
AgEd	54	3	31	4	32	5	38	11	178
AgJ	—	—	—	—	—	—	2	2	4
Agro	7	1	3	—	6	3	10	3	33
AH	25	2	39	6	22	1	23	14	132
Bact	15	1	3	—	4	2	15	2	42
BPP	4	—	—	—	—	—	—	1	5
Consv	—	—	2	—	4	2	1	—	9
DSc	28	1	19	—	29	3	28	5	113
GnAg	23	2	6	—	14	—	19	4	68
Hort	18	1	15	4	13	2	14	5	69
LArch	2	2	5	2	15	2	17	1	46
MedT	36	—	12	1	15	—	11	1	76
PH	2	—	2	—	1	—	2	—	7
PV	43	1	18	7	14	1	3	—	87
ZE	15	—	15	3	9	—	10	2	54
2Ag	19	3	13	6	—	—	—	—	41
School of Forestry									
For	1	—	75	4	50	4	61	8	203
WU	—	—	2	—	6	2	6	1	17
Total	321	19	276	34	247	30	280	64	1273
BUSINESS ADMINISTRATION									
BA	276	30	284	46	346	67	347	112	1508
Total	276	30	284	46	346	67	347	112	1508
CHEMISTRY & PHYSICS									
ChE	134	7	88	5	60	7	47	3	351
Chem	39	3	33	1	26	2	22	1	127
CCh	—	—	—	—	—	—	1	2	3
Phys	53	8	35	4	32	5	21	4	162
PM	62	—	27	3	30	2	22	—	146
Sc	17	1	11	2	4	3	10	6	54
Total	305	19	194	15	152	19	123	16	843
EDUCATION									
AEd	14	2	21	3	11	3	10	—	66
Ed	361	22	277	25	251	18	211	41	1206
IArt	14	2	7	5	12	3	22	9	73
MusEd	30	4	24	4	22	1	14	1	100
Psy	73	7	60	9	51	9	29	7	245
VIEd	2	—	2	—	1	—	1	1	7
Total	494	37	391	46	350	34	286	59	1697
ENGINEERING & ARCHITECTURE									
AeroE	116	8	77	10	57	7	36	10	321
AgE	32	—	9	—	10	1	17	5	74
Arch	36	1	20	3	24	3	16	20	123
AE	18	—	17	—	13	1	5	9	63
CE	104	9	81	8	68	13	51	27	361
EE	131	27	196	33	205	50	190	55	987
ESc	—	1	22	2	16	—	12	2	55
IE	54	4	45	10	35	11	58	21	238
ME	186	6	115	26	111	24	103	41	612
SE	—	—	—	—	3	—	—	1	4
Total	777	56	588	92	542	110	492	191	2838
HOME ECONOMICS									
HEc	193	6	144	2	110	3	135	11	604
HA	22	3	22	5	26	3	28	5	114
Total	215	9	166	7	136	6	163	16	718
THE LIBERAL ARTS									
AL	356	24	266	27	228	37	226	61	1225
LMR	7	1	9	3	15	3	16	7	61
School of The Arts									
AArt	41	1	25	3	26	1	16	3	116
Arts	31	—	8	4	11	2	4	1	61
School of Journalism									
Journ	72	5	48	2	54	14	53	15	263
Total	507	31	356	39	334	57	315	87	1726
MINERAL INDUSTRIES									
Cer	13	1	13	3	8	1	6	3	48
FT	23	—	13	—	2	—	2	—	40
Geog	1	—	2	—	9	1	4	4	21
G&G	14	—	5	2	9	2	6	3	41
G&M	34	5	20	1	15	—	5	6	86
Metal	59	4	31	5	21	1	21	7	149
Meteo	8	2	6	3	14	2	37	—	72
MnEc	5	—	—	—	2	2	3	2	14
MPE	2	—	3	—	3	—	1	2	11
MngE	13	1	6	1	4	2	3	1	31
PNGE	28	1	9	2	15	1	14	5	74
Total	200	14	108	17	101	12	102	33	587

Registrar Reports on Total Campus Enrollment for Fall Semester, 1957-58

	1 Sem		2 Sem		3 Sem		4 Sem		5 Sem		6 Sem		7 Sem		8 Sem		Total
Physical Education & Athletics																	
PhEd	76		7		58		5		49		5		48		16		264
RcEd	9		2		8		—		16		1		11		2		49
Total	85		9		66		5		65		6		59		18		313
Division of Counseling																	
Counseling	106		28		419		36		104		16		10		—		719
Total																	
Undergraduates	3286		252		2844		337		2377		357		2173		596		12,222
	Freshmen		Sophomores		Juniors		Seniors		Graduate		Special		Totals				
	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	T
Campus																	
Full-time	2310	1220	2279	885	2102	612	2156	589	463	87	32	7	9342	3400			12742
Part-time	5	3	8	9	9	11	17	7	876	225	93	126	1008	381			1389
Total on Campus	2315	1223	2287	894	2111	623	2173	596	1339	312	125	133	10350	3781			14131
Centers (See summary below)																	
Full-time (4-Yr)	924	124	247	55	3	—	—	—	—	—	—	1	1177	180			1357
Full-time (2-Yr)	992	21	517	13	—	—	—	—	—	—	—	—	1509	34			1543
Part-time (4-Yr)	69	3	10	2	—	—	—	—	—	—	8	5	87	10			97
Part-time (2-Yr)	34	—	43	—	—	—	—	—	—	—	—	—	77	—			77
Part-time Ext.	—	—	—	—	—	—	—	—	225	180	765	770	990	950			1940
Total Centers	2022	148	817	70	3	—	—	—	225	180	773	776	3840	1174			5014
Mont Alto																	
Full-time	120	—	—	—	—	—	—	—	—	—	—	—	120	—			120
Total Off Campus	2142	148	817	70	3	—	—	—	225	180	773	776	3960	1174			5134
Total On and Off Campus	4457	1371	3104	964	2114	623	2173	596	1564	492	898	909	14310	4955			
	5828		4068		2737		2769		2056		1807		19265				

Summary of Off Campus Enrollment, Fall Semester, 1957-58

	Full-Time	Four-Year Part-Time	Special Part-Time	Full-Time	Two-Year Part-Time	
Centers						
Allentown	—	—	—	104	9	113
Altoona	230	1	—	194	26	457
Behrend	121	43	6	86	9	259
DuBois	114	—	—	76	3	195
Hazleton	159	4	2	134	1	299
McKeesport	—	—	1	200	6	206
New Castle	—	—	—	84	—	84
Ogontz	539	36	2	125	4	706
Pottsville	194	—	2	90	1	287
Scranton	—	—	—	102	2	104
Wilkes-Barre	—	—	—	211	7	218
York	—	—	—	137	9	146
Mont Alto	120	—	—	—	—	120
Total Off Campus	1477	84	13	1543	77	3194

Recapitulation

	M	W	Total
Campus			
Full-time undergrad.	8879	3313	12192
Part-time undergrad.	132	156	288
Total undergrad.	9011	3469	12480
Full-time graduate	463	87	550
Part-time graduate	876	225	1101
Total graduate	1339	312	1651
Total On Campus	10350	3781	14131
Off Campus			
Full-time undergrad.	2806	214	3020
Part-time undergrad.	164	10	174
Part-time Extension			
Undergrad.	765	770	1535
Graduate	225	180	405
Total Off Campus	3960	1174	5134
On and Off Campus			
Full-time undergrad.	11685	3527	15212
Part-time undergrad.	1061	936	1997
Full-time graduate	463	87	550
Part-time graduate	1101	405	1506
Total	14310	4955	19265

Graduate and Special Students by Colleges

	Graduate M	Graduate W	Special M	Special W
Agriculture	248	19	20	3
Business Admin.	39	2	19	19
Chem. and Phys.	228	12	8	1
Home Economics	2	62	1	22
Liberal Arts	131	61	23	55
Education	271	133	31	30
Eng. and Arch.	142	—	16	1
Mineral Ind.	225	2	7	1
Phy. Ed and Ath.	19	12	—	1
General Graduate	33	9	—	—
Total	1338	312	125	133
	1650		258	

Items of Interest

Dr. Harold J. Read, professor of physical metallurgy, presented the opening paper at a symposium on the mechanism of corrosion recently sponsored by the Electrochemical Society. His paper discussed the causes of corrosion from outdoor exposure.

Dr. Arthur F. Davis, professor of physical education, recently was presented with a medallion for distinguished service to the Pennsylvania Heart Association. He is a member of the board of directors of the Association and chairman of the public information-education committee.

Robert Reifsneider, Russell Whaley, and Kelly Yeaton, all members of the faculty of the theatre arts department, recently attended the American Educational Theatre Conference in Boston. Reifsneider served as secretary, for a panel on "Stage Movement: A Basic Technique," and participated in the program when it was televised on Boston's educational station.

Dr. Walter H. Walters, head of the department of theatre arts, represented the department at the Children's Theatre Conference in Boston, recently.

Dr. Margaret B. Matson, assistant professor of sociology, was installed as president of the Pennsylvania Sociological Society at its annual meeting on campus recently.

Dr. Roy C. Buck, associate professor of rural sociology, presented a paper on "Agricultural Fundamentalism and the Human Relations Disciplines" at the recently Pennsylvania Sociological Society meeting on campus. Dr. M. E. John, professor of rural sociology and head of the department of agricultural economics and rural sociology, presided at a general session and Dr. Maurice A. Mook, professor of anthropology, chaired a discussion on "Teaching the Anthropology Course."

Helen A. Guthrie, assistant professor of foods and nutrition, spoke on "Nutrition and Heart Disease," at a meeting of the Heart Seminar of Mifflin-Juniata Heart Association at Lewistown, recently.

Dr. Dorothy E. Alfke, associate professor of education, has been appointed elementary science specialist for the National Science Teachers Association, an affiliate of the National Education Association. She will serve as co-editor of the association publication, "The Elementary School Science Bulletin" and as a field consultant.

Dr. Shaler To Receive High Metallurgy Teaching Award

Dr. Amos J. Shaler, professor of and head of the department of metallurgy, will receive a \$2,000 award as the outstanding young teacher of metallurgy on Nov. 4. The award is given by the American Society for Metals and the formal presentation will be made at the second World Metallurgical Congress in Chicago.

The recipient of the award is selected from nominees proposed by the various chapters of the American Society for Metals. The award was established in 1952 to encourage young teachers.

Cochran Named Director Of Nuclear Reactor

Dr. Robert G. Cochran, research associate, has been named director of the Nuclear Reactor and associate professor of nuclear engineering.

Before coming to Penn State in 1954, Dr. Cochran had served as a nuclear physicist at Oak Ridge National Laboratory and also as physicist-in-charge of the Bulk Shielding Facility reactor project at Oak Ridge. Previously he had served as research assistant at Indiana University, where he conducted heavy particle research with the cyclotron.

Olver Named Director Of New Security Department

Elwood F. Olver, associate professor of agricultural engineering, has been appointed to the newly created position of director of the department of security.

The department will be responsible for the establishment and maintenance of programs for safety, civil defense, disaster planning, waste disposal, and the operation of the campus patrol.

Students Urged Too Make Scholarship Applications

Faculty members are urged to advise needy students to submit applications for scholarships awarded by the Senate Committee on Scholarships and Awards now. Closing date for filing applications is Oct. 31.

Application forms may be obtained from the Coordinator of Scholarships, 203 Old Main, or the Trust Funds Division, Accounting Office, 6 Willard Hall.

The same application will be considered for all other scholarships for which the student will be eligible, whether the recipients are selected by the University or College committees.

Trustees Honor Hostetter

The Board of Trustees honored S. K. Hostetter, who retired Oct. 1 as vice-president for finance emeritus, by a resolution read into the minutes of its meeting last weekend and by presenting Hostetter with a leather-bound letter in which the resolution was inscribed.

Calendar

Friday, Oct. 11

Ordinance Research Laboratory colloquium, 4:10 p.m., Room 110 Electrical Engineering. Dr. Robert Nathans, Brookhaven National Laboratory, Long Island, N.Y., on "Magnetic Structure of Annealed Se₂Al."

Saturday, Oct. 12

Cross country, versus Cornell, 1 p.m.
Football, versus William and Mary, 1:30 p.m.

Sunday, Oct. 13

Protestant service of worship, 9 a.m., Helen Eakin Eisenhower Chapel.
Catholic Mass, 9 a.m., Schwab Auditorium.
Chapel Service, 10:55 a.m., Schwab Auditorium, Dr. Luther Harshbarger, University Chaplain, the speaker.

Monday, Oct. 14

Faculty Luncheon Club, 12 noon, Dining Room "A", Hetzel Union Building. Dr. Erwin W. Mueller, research professor of physics, on "Looking At Atoms."

Meeting of the American Association of University Professors, 7:30 p.m., Mineral Sciences Auditorium. Panel discussion on "How To Improve College Teaching," with Dr. Hugh S. Brown as chairman.

Tuesday, Oct. 15

Physics colloquium, 4:10 p.m., 117 Osmond. Dr. R. D. Huntoon, associate director for physics, National Bureau of Standards on "From Standards to Physical Constants."

Vesper service, Helen Eakin Eisenhower Meditation Chapel. Dr. A. H. Reede, professor of economics, on "A New Look At The Old Testament."

Meeting of Central Pennsylvania Section, Institute of Radio Engineers, 8 p.m., at the Autoport. Arthur S. Locke, vice-president of Vitro Corp., on "Guidance Aspects of Guided Missiles."

Digital Computer seminar, 4:10 p.m., Room 209 Willard, with Donald Hardenbergh, professor of engineering mechanics, on "A Regression Problem Using the Rational Integral Equation."

Thursday, Oct. 17

Vesper service, 4:30 p.m., small lounge, Helen Eakin Eisenhower Chapel. Friends (Quaker) silent meeting for worship.

Central Pennsylvania Section of the Society for Industrial and Applied Mathematics meeting, 8 p.m., Room 214 Willard Hall. Alex Bernstein, International Business Machines Corporation, on "Chess Playing and Learning For Digital Computers."

Statistics Seminars Held

Wednesday Honor Dr. Meyer

A series of seminars on statistics, called the Arthur Meyer Seminar in Statistics, began this week. The next seminar will be held on Wednesday, Oct. 16, at 5 p.m., in Room 208, Willard Hall, on the subject, "Distribution Functions."

The seminars will be held weekly at the same time. They honor Dr. H. Arthur Meyer, late associate professor of forestry, who was much interested in statistics and initiated the seminars on an informal basis before his death two weeks ago.

Research Reactor Open Houses Begin Oct. 18

The Research Reactor, on east campus, will be open on Friday, Oct. 18 from 8 to 10 p.m. to all members of the faculty of the College of Engineering and Architecture, according to Robert G. Cochran, research associate at the Reactor.

Due to the limited number of radiation monitoring film badges, Cochran points out, only 35 persons can be accommodated at one time at the Reactor. Some cause for delay may therefore be necessary.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Thespians Present Musical Comedy

The musical revue, "A Great Future", will be presented by the Penn State Thespians tonight and tomorrow night at 8 p.m. in Schwab Auditorium.

The Homecoming Queen will be crowned during the evening. Tickets will be available at the door.

Dr. Tschan Honored By Memorial Book Fund

Dr. Francis J. Tschan, professor emeritus of European history until his death July 24, will be honored by the department of history, which is sponsoring a memorial fund for the purchase of books by the Library. The books will be in the field of medieval history, in which Dr. Tschan was a well known scholar.

The fund will be administered by the Penn State Foundation which will accept contributions earmarked for the fund.

Dr. Tschan taught at Penn State from 1925 until he retired in 1946. He was author of several books and numerous articles in the area of medieval history and in European history generally.

Alumni Return For Homecoming Program

Alumni of the University will return to the campus today and tomorrow for the annual Homecoming program, which will include many activities.

Center of attention will be the football game at Beaver Field with Penn State pitted against Vanderbilt, at 1:30 p.m. The freshman team plays Pittsburgh at 10 a.m., tomorrow.

Other activities include a meeting of the Alumni Council, coffee hours in the colleges of Home Economics and Physical Education and Athletics, and in the schools of journalism and the theatre arts; the alumni luncheon, a cider party Saturday evening, and the Autumn Ball.

Hort Show Saturday And Sunday Will Attract 15,000

The 44th annual Horticulture Show, sponsored by the Penn State Hort Club, will be held on Saturday, Oct. 19, from 9 a.m. to 9 p.m. and on Sunday, Oct. 20, from 9 a.m. to 7 p.m.

Theme of this year's show, expected to attract some 15,000 people, is "An Old English Countryside." It will feature over 1500 potted flowers, a sunken pond, a cottage, and other materials appropriate to the theme.

Apples, cider, and foliage plants will be on sale at the show, but admission is free and a souvenir booklet will be distributed free.

The show will be held in the Stock Judging Pavilion, just south of the Dairy Building.

Players Present Anouilh's The Carnival of Thieves

The Penn State Players' production of the farcical comedy "The Carnival of Thieves" by Jean Anouilh opens this evening at 8 p.m. at Center Stage.

The play will also be given every Friday and Saturday evening until Nov. 23. Tickets will be sold at the Hetzel Union Building desk on Monday, from 1 p.m. to 4:45 p.m., on Tuesday through Friday from 9 a.m. to 12 noon and 1 p.m. to 4:45 p.m., and at the door of Center Stage prior to curtain time if any tickets remain.

The play concerns three rascally pick-pockets, each adopting a different disguise as needed. Posing as Spanish noblemen, they become acquainted with the wealthy Lady Hurf, Lord Edgard, and their daughter Juliette and lay plans for looting the Hurf castle.

Kelly Yeaton, associate professor of theatre arts, directs the play.

Auction Sale Oct. 26

An auction sale of equipment of many types will be held at the University Salvage Warehouse, east of the Mitchell farm on north campus, at 10 a.m., Saturday, Oct. 26.

Dr. Oliver's Speech Text In Use In Korean Schools

A new book by Dr. Robert T. Oliver, titled "Speech For Democratic Living," is now being published in Seoul in a Korean translation for high school use and in English for college use in Korea.

Dr. Oliver is head of the department of speech.

Dr. Syngman Rhee, president of Korea, commended the new program which is the first organized work in speech on a nation-wide basis in the Far East. He said that he knew of no better way by which Korean youth could be habituated to the essentials of democracy than by developing their own ideas and learning how to express them effectively.

Advisory Committee Functions Defined

The functions of the President's Advisory Committee, made up of members of the faculty, have been defined. The committee consists of Dr. H. J. Read, professor of physical metallurgy, as chairman; Dr. A. Witt Hutchison, professor of chemistry; Francis T. Hall, Jr., professor of electrical engineering; Dr. Fred M. Coombs, professor of physical education; and Dr. Hugh S. Brown, professor of education.

The committee's functions are:

(1) To advise the president on matters which he refers to them.

(2) To suggest, for the good of the University, ideas and plans which do not belong in normal administrative channels such as deans, vice presidents, or the Senate.

(3) To serve as an informal channel of communication from the faculty to the president. Matters so received may be referred to appropriate offices or committees for study or may be dealt with directly.

Brubeck Gives Concert

Dave Brubeck and his quartet will present a jazz concert in Recreation Building Sunday evening at 8:30 p.m. as the third number in the Students' Artists Series.

Senate Minutes

Minutes of the Meeting of October 10, 1957

The University Senate met at 4:10 p.m. on Thursday, October 10, 1957, in the Assembly Room of the HUB with President Eric A. Walker presiding. The minutes of the June 4 meeting were approved as printed in the Faculty Bulletin for June 14, 1957. One hundred fifty-two senators signed the roll.

The president stated that at the January 3, 1957 meeting of the Senate this motion was passed:

For the remaining part of the 1956-57 academic year the privilege of attending Senate meetings, unless the meeting be designated as a closed session, be granted to representatives of Student Publications.

Since this is a new academic year he asked for an expression from the members on this question. G. K. Nelson moved that the privilege be granted until such time as the Senate revokes it. The motion was seconded and passed.

President Walker called on the Deans of the Colleges to introduce the new senators from their Colleges.

COMMUNICATIONS OF UNIVERSITY OFFICERS

F. G. Brickwedde, Dean of the College of Chemistry and Physics, reported the following changes in Senate membership from that College: E. T. Williams for a two year term 1957-59, replacing E. R. Fitzgerald, who had resigned; C. A. Bauer for a one-year term 1957-58, replacing Eugene Ackerman, who is on leave.

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senators: H. S. Brunner (N. K. Hoover), D. E. Hardenbergh (J. W. Breneman), H. M. Davison (W. J. DeLacy), R. G. Stoner (P. S. Skell), A. J. G. Maw (P. H. Margolf), N. R. Sparks (E. E. Ambrosius), W. C. Bramble (R. A. Bartoo), A. H. Reede (R. S. Stout), E. L. Keller (T. S. Goas), H. J. Read (J. B. Wagner), M. S. Gjesdahl (B. L. Jenks), C. R. Carpenter (W. S. Ray), G. W. Brindley (M. C. McQuarrie), M. A. Mook (D. C. Miller), Miriam Lowenberg (Elizabeth Hester), A. A. Benson (P. M. Althouse), A. L. Bortree (H. W. Dunne), M. S. Osborne (L. A. Richardson), C. W. Stoddart, Jr. (G. N. Thiel), and W. W. Miller (L. A. Currie).

The following letter was read from L. E. Dennis:

At its meeting October 4, 1957, the Executive Committee of the Board of Trustees approved a report from the Committee on Instruction, headed by Mayor Richardson Dilworth, recommending that three special subcommittees of the Trustee Committee on Instruction be appointed to work with representatives of the University administration and the faculty Senate in preparing studies on three specific problems: (1) The University calendar and class schedule; (2) Course and curriculum revision, including the development of honors programs; and (3) More effective utilization of teaching and plant resources with special attention to mechanical and electronic devices.

As soon as these special subcommittees of the Committee on Instruction have been formally appointed by the Committee Chairman, and the Vice President for Academic Affairs will arrange mutually convenient dates within the next several weeks when the Trustee subcommittees might meet with the appropriate Senate and administrative groups to discuss the problems in which the Trustees have expressed an interest.

A second letter from Mr. Dennis was read as follows:

At its meetings in June and July 1957, the Committee on Instruction of the Board of Trustees of the University heard reports from various officers of the University and chairmen of several Senate committees on a number of problems facing the University. Included among these was the problem of course proliferation which had been discussed by the Senate from time to time and to which the evaluating team from the Middle States Association directed our attention in its accreditation report.

The Trustee Committee on Instruction has requested that I formally convey to the Senate an expression of the Committee's keen and continuing interest in the problem of course proliferation. The Committee has requested another report from the officers of the University on this matter

toward the close of the 1957-58 academic year.

A letter from C. O. Williams to President Walker relative to enrollment follows:

A word of explanation about the University enrollment may be of interest to the members of the Senate.

	Fall 1957	Fall 1956
Main Campus	14,131	13,147
All Off-Campus Locations	5,134	2,898

Total All Locations 19,265 16,045
Of the increase on the Main Campus, 670 were women, largely explained by the use of the new residence halls.

The big increase in off-campus enrollment is mostly explained by the inclusion this year for the first time of 1940 students who were registered in extension classes. Of this number, 405 are registered in the Graduate School. This group of students will be included in all enrollment summaries in the future.

From John D. Lawther, secretary of the Senate Committee on Educational Policy: Contrary to current report the Educational Policy Committee made no decision last spring as to kind of recommendation to the Senate on policy for sabbatical leaves. The Committee has taken up the problem again this fall and hopes to have a policy recommendation by the next Senate meeting.

The President stated that when the chairman of the Committee on Instruction of the Board of Trustees appoints the subcommittees, members of the Senate will be asked to meet with those subcommittees.

REPORTS OF STANDING COMMITTEE

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the Agenda as Appendix "A." He stated that the Department of Journalism had requested that the last three lines on page 4 be deleted. Mr. Shelley moved the adoption of the report as corrected. The motion was seconded and passed.

F. M. Coombs, Chairman of the SENATE COMMITTEE ON CALENDAR, presented a progress report as follows:

The Senate Committee on Calendar has been charged with the responsibility of studying the desirability and feasibility of changing the present calendar from a two semester plus summer session pattern, to a pattern which might be a trimester pattern or a quarter system.

The study is requested for two reasons: first, in view of the anticipated increased enrollment in the next decade, it seems imperative that more efficient use be made of available facilities; second, requests for funds for additional facilities are difficult to justify if present facilities are not used to the optimum.

In order to make more intensive use of the facilities during the summer the Calendar Committee concluded in the Spring of 1957 that a limited number of departments should provide a 9 to 12 weeks summer program in parallel with the existing summer program beginning in 1958. The new programs would be planned with the thought in mind that the students following them would graduate in three or three and a half years. To start with, at least, the administration of all courses involved would be handled through the Dean of the Summer Sessions.

The Committee recognizes the far-reaching implication of any change in its term structure, and is anxious that the problem be studied thoroughly and objectively, before any decision is reached. In considering the merits of the quarter system or trimester plan, factors should be considered in relation to administrative efficiency, utilization of the physical plant, instruction, accommodation of increased numbers of students, faculty work schedules, and the summer sessions.

To appraise the facts and opinions of members of the Senate and of other faculty, the Calendar Committee has requested that the President schedule a special meeting of the Senate for 7:30 p.m. Thursday, December 12, Room 121 Sparks Building.

In compliance with the request of the Committee, the President called the special meeting to be held on Thursday, December 12, at 7:30 p.m. in Room 121 Sparks Building. J. F. Bradley, Chairman of the SENATE COMMITTEE ON SCHOLARSHIPS AND AWARDS, gave a brief report on the recent activities of the committee relative to grants-in-aid.

UNFINISHED BUSINESS

M. E. John, Chairman of the special COMMITTEE ON THE ORGANIZATION AND OPERATION OF THE UNIVERSITY SENATE, gave an oral report. He said the com-

mittee has a two-fold job: first, clarification of purposes; and second, the elimination of some of the administrative functions of the committee to give them more time to consider policy.

A. W. Hutchison, Chairman of the SENATE COMMITTEE ON EXTENSION POLICY, moved that the recommendation of the committee made at the June 4 meeting of the Senate be removed from the table. The motion was seconded and passed. The recommendations contained in this report were printed on page 874 of the minutes. Mr. Hutchison moved that recommendation 1 in the report be adopted. The motion was seconded. In this discussion it was suggested that the wording of the report might be misinterpreted and the Chairman was instructed to rephrase it so as to avoid ambiguity. The motion to adopt the recommendation as rephrased was passed. Recommendation 1 follows:

It is recommended that any College-credit course approved by the Senate may, at the discretion of the department offering the course, be given off-campus, subject to the same type of University control which operates for on-campus courses. As a consequence of this the Senate no longer need give specific approval for such courses for extension and the symbol "X" should be dropped from course designations. Mr. Hutchison moved the adoption of recommendation number 2. The motion was seconded and passed. The recommendation is as follows:

It is recommended that the present policy of distinguishing between campus and off-campus work on student transcripts and registration records be extended to include all cases but with some simplification of designation.

At present "off-campus" work is identified in the following cases: Correspondence study by the symbol "C"; "off-campus thesis research by the number "610"; extension courses by the symbol "X"; transfer credit by the name of the institution; center credit by the name of the center; field trips, summer camp and practice teaching by the title of the course.

The following types of off-campus work which are not identified in any way as being "off-campus" have come to the attention of the Committee: Internships in hospitals and public schools; projects done in the public schools; off-campus research not related to thesis work;

It is proposed that correspondence study, transfer credit, center work, field trips, summer camp, and practice teaching continue to be designated as at present but that all other off-campus work be designated on registration forms and student records by an appropriate symbol, the symbol being defined to signify "off-campus."

In accord with this recommendation the number 610 would no longer be necessary nor would extension courses be differentiated from other off-campus work.

In the above sections "campus" is defined to mean the University Park campus and other locations which have been officially approved for specific types of residence work.

Mr. Hutchison stated that the committee is continuing its study of recommendation number 3. No action was requested.

NEW BUSINESS

N. A. Norton moved that the following dates for regular Senate meetings for the academic year 1957-1958 be approved: November 7, December 5, 1957; January 9, February 6, March 6, April 10, May 1 and May 29, 1958. The motion was seconded and passed.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

E. H. Freund raised the question on the increase in number and length of term of elected senators as proposed at the June meeting. President Walker reminded the Senate that this recommendation had been referred to the Senate Committee on the Organization and Operation of the University Senate at the June meeting.

President Walker gave a brief resume of the developing long range policies of the University.

The next regular meeting of the Senate will be Thursday, November 7, at 4:10 p.m. in the Assembly Room of the HUB. The agenda will be distributed on October 24, 1957.

The meeting adjourned at 4:55 p.m.
Ray V. Watkins, acting for
C. O. Williams, Secretary

Items of Interest

Dr. M. R. Fenske, director of the Petroleum Refining Laboratory attended the semi-annual meeting of the Committee on Lubrication and Wear of the National Advisory Committee for Aeronautics this week. He described the recent work in the Laboratory on new types of hydraulic fluids and lubricating oils for supersonic aircraft and missiles.

Dr. March W. White, professor of physics, conferred with groups of teachers of science from New Jersey State Teachers College at Jersey City last week and spoke at a luncheon meeting and at a faculty convocation on "Some of the Characteristics of Good Secondary School Science." The meetings are a part of the AAAS Science Teaching Improvement Program, for which Dr. White is regional consultant.

Lorin J. Elder, supervisor of the safety division, will participate in the 45th National Safety Congress and Exposition in Chicago, next week, presiding at one meeting and sitting on a panel of another of the Public Employees Section.

Benjamin W. Niebel, head of the department of industrial engineering, recently addressed the York chapter of the American Institute of Industrial Engineers, on "Where Is Industrial Engineering Going."

Dr. Earl P. Strong, director of the Bureau of Business Research, served as a member of the program committee of the 11th annual meeting of the Associate University Bureaus of Business and Economic Research, at East Lansing, Mich., recently.

Department of Speech faculty members who participated in the meetings of the Pennsylvania Speech Association recently included Dr. Robert T. Oliver, Joseph F. O'Brien, Dr. Harold E. Nelson, Dr. Elton S. Carter, Dr. William W. Hamilton, Mrs. Harriett D. Nesbitt, Dr. Iline Fife, John K. Brilhart, and James M. Lewis.

Dr. Miriam E. Lowenberg, head of the department of foods and nutrition, discussed nutrition in school lunch programs before the School Lunch and Nutrition Section of Schoolmen's Week at the University of Pennsylvania last week.

Dr. Katherine H. Fisher, associate professor of foods and nutrition, spoke on "Your Role in the School Lunch Program" last Friday at a workshop for cafeteria personnel from Chester County Schools at Berwyn, Pa.

Dr. Eugene A. Myers, associate professor of economics, and Dr. Randall S. Stout, professor of public finance, are authors of an article on local government expenditures in the current issue of the National Tax Journal.

Dr. Erwin W. Mueller, research professor of physics, spoke on "New Results of Field Ion Microscopy" this week at Syracuse University and will participate in a special two-day session of the Physical Science Study Committee at Massachusetts Institute of Technology.

Dr. Merrell R. Fenske, director of the Petroleum Refining Laboratory, will address the Canadian Institute of Chemists in Sarnia, Ont., on Oct. 21 on the use of liquid ammonia in separating complex hydrocarbon mixtures.

Report from the Registrar

WITHDRAWALS (Campus)

- 3 Abbey, William Tell, PhD, Sept. 28
- Gr Acton, Lawrence L., September 16
- Gr Becker, Harold James, Jr., AE, Sept. 19
- 3 Bender, Andrew Lee, Coun, Oct. 2
- 3 Bennett, James Daniel, For, Oct. 4
- 7 Bernauer, John Paul, ME, Sept. 20
- 1 Caplan, Shirley, A&L, Sept. 18
- 1 Curry, Mary Cathryn, E&D, Sept. 16
- 5 David, Francis, A&L, Sept. 17
- 1 Denick, Carole Gay, Ed, Sept. 16
- 1 Emery, Joanne Adele, BusAd, Sept. 16
- 5 Frey, Arthur John, Aero, Sept. 21
- 5 Glass, Irwin, CE, Oct. 7
- Gr Guild, Richard D., Sept. 27
- 2 Kamenir, Abram Morris, Coun, Oct. 3
- 8 Krewson, Charles Fleming, For, Oct. 2
- 1 McCaw, Kenneth W., BusAd, Sept. 27
- 1 Mazer, William, HA, Oct. 1
- 5 Newman, Samuel A., ChE, Oct. 3
- 3 Parsons, Charles Edward, Oct. 4
- 1 Pease, Dexter W., BA, Oct. 3
- 1 Piurkoski, Philip Roger, CE, Sept. 23
- 1 Ruch, George Samuel, Journ., Sept. 27
- 1 Sherry, Mary Ann, SecEd, Sept. 24
- Gr Suetterlein, David Frank, Oct. 2
- 1 Usko, David Keith, IndArts, Oct. 7
- 1 Beaver, Charles Raymond, GenAg, Sept. 26
- 1 Bonesteel, William Wilt, Journ, Sept. 24
- 1 Borwn, Jean Dolores, E&D, Sept. 16
- 1 Close, David T., ChE, Sept. 21
- 1 Crothers, Jeffrey Keim, PhD, Sept. 23
- 3 Dietrich, Emerson Nathan, AppArt, Sept. 20
- 1 Dufour, Paul Victor, BA, Sept. 20
- Sp Dumm, Bessie S., Sept. 23
- 1 Earhart, Richard J., ME, Sept. 25
- 1 Endress, Patricia Ann, MedT, Sept. 14
- 1 Esp, Herman Fredrick, AgEd, Sept. 27
- Gr Garman, Gerald Eugene, Sept. 17
- 1 Garofalo, Roseanne, A&L, Sept. 23
- 1 Gelles, John Michael, Jr., MuEd, Sept. 18
- 1 Gerhard, Harold William, EgEd, Sept. 23
- 3 Ginnodo, William L., Jr., SecEd, Sept. 19
- 5 Grimm, Floyd Jerome, Psy, Sept. 17
- 1 Haller, Donald E., Pv, Sept. 16
- 1 Hatch, Mary Elizabeth, A&L, Sept. 16
- 1 Hay, William Richard, AH, Sept. 23
- 3 Howlett, Kirby Smith, A&L, Sept. 20
- 1 Kephart, Edwin G., Jr., AgE, Sept. 26
- 5 Kochenour, Robert E., Journ, Sept. 20
- Gr Kolasa, Theresa M., PhD, Sept. 18
- Gr Krusinski, Leonard Michael, Sept. 18
- 1 Kunkle, Donald Wayne, BA, Sept. 26
- 5 Lamb, Gerald L., CE, Sept. 17
- 1 McVicar, George Thomas, PhD, Sept. 19
- 1 Maier, Linda Dorothy, A&L, Sept. 16
- 5 Majka, Walter John, CE, Sept. 20
- Gr Martin, Julia M., Sept. 24
- 3 Mehalchin, John J., ChE, Sept. 16
- 1 Miller, Donald Duane, AgE, Sept. 18
- 1 Moore, Emery Lightner, ME, Sept. 21
- 1 Moore, Jerry Banks, ME, Sept. 19
- 5 Murray, William J., BA, Sept. 17
- 2 Nein, Wilbur Frank, DOC, Sept. 19
- 1 Pawlak, Raymond Paul, Aero, Sept. 21
- 2 Rankin, James Taylor, Agr, Sept. 27
- Gr Roan, Rodney Gouveneur, Oct. 1

- 8 Robinson, Jean L., A&D, Sept. 20
- 1 Runk, James Dale, ME, Sept. 25
- 5 Sangree, Henry H., Agro, Sept. 17
- 1 Shaeffer, Terry Lee, DOC, Sept. 17
- 1 Shepler, Richard Allan, BA, Sept. 16
- 1 Shoemaker, Ronald W., EE, Sept. 20
- 3 Slater, Theodore George, Jr., Sept. 20
- Gr Slocum, Lloyd V., EE, Sept. 25
- 4 Stecker, Jacquelyn, E&D, Sept. 13
- 7 Suder, Burton, ME, Sept. 24
- 1 Taylor, Joseph Charles, AgEc, Sept. 16
- 1 Tucker, Joan M., Journ, Sept. 20
- 1 Waite, Barbara Jane, HEc, Sept. 17

WITHDRAWALS

(University Centers)

- Bachelor Degree Program
- 1 Anthony, Robert W., Jr., IE, Sept. 18
- 1 Baron, George Robert, GM, Sept. 19
- 1 Behony, George Joseph, A&L, Sept. 20
- 1 Buecker, Theodore Frederick, Jr., CE, Sept. 20
- 1 Crissman, Howard Bernard, SecEd, Sept. 20
- Sp Deitch, Marlin Duane, Sept. 20
- 1 Gazo, Robert Richard, BA, Sept. 20
- 2 Irvin, Robert Wayne, Psy, Sept. 12
- 3 Kendall, Gloria Anne, SecEd, Sept. 17
- 4 Koplyay, John, PM, Sept. 16
- 1 Kress, John D., Sept. 24
- 1 Northey, Robert Lewis, IE, Sept. 18
- 1 Swanson, Donald James, CE, Sept. 18
- 2 Craig, Keith W., EE, Sept. 17
- 4 Dubinsky, Arnold J., BA, Sept. 27
- 2 Evangelisto, Gilbert Joseph, PM, Sept. 21
- 3 Freedman, Judith, AL, Sept. 16
- 1 Graham, Wallace Ewing, AL, Sept. 25
- 1 Kasander, John, ME, Sept. 26
- 3 Neumann, Stanton Henry, HA, Sept. 27
- 1 Wascovich, Frederick, Jr., Aero, Sept. 30

Associate Degree Program

- 1 Bolger, Brian George, DDT, Sept. 23
- 1 Brown, Howard, ET, Sept. 20
- 1 Cherwak, Francis Raymond, PT, Sept. 20
- 1 Connor, Edward Joseph, ET, Sept. 19
- 1 Doman, Francis Joseph, DDT, Sept. 13
- 1 Downing, John Daniel, ET, Sept. 27
- 1 Garber, Charles, ET, Sept. 19
- 1 Glessner, Willard Dee, ET, Sept. 20
- 1 Hensley, Charles John, DDT, Sept. 20
- 1 Knell, Henry, ST, Sept. 20
- 1 Kraszewski, John Benedict, ET, Sept. 16
- 1 Mulligan, Paul L., ET, Sept. 23
- 1 Natoli, Ronald J., PT, Sept. 17
- 1 Prapak, Rihard Thomas, DDT, Sept. 19
- 1 Sluck, Andrew, ET, Sept. 27
- 3 Vishneski, Robert J., DDT, Sept. 27
- 1 Waksmonski, Thomas, ET, Sept. 30
- 1 Westbrook, Allan G., DDT, Sept. 25
- 1 Difelice, Joseph Albert, ET, Sept. 24
- 1 Loesel, George Gilbert, DDT, Sept. 18
- 1 Muriceak, William E., DDT, Sept. 17
- 1 Tomlinovich, Joseph Peter, ET, Sept. 20
- 3 Tomlinson, James, DT, Sept. 20
- 1 Wyshosky, Peter, DDT, Sept. 16

The following reasons were given for withdrawing: Personal 62, Financial 17, Illness 9, Transferring 7, Scholastic 3, Military Service 4, and Other 11.

Films Listed For Preview

Materials listed below have been requested. Please call Extension 2051 and give code number of those you would like to see; you will be notified when they arrive so that you can arrange a preview showing in Room 9, Library.

- S-20 Afternoon of a Faun
- S-21 Altar Masterpiece
- S-22 Bespoke Overcoat
- S-23 Black Patch
- S-24 Making Wood Sculpture with Files
- S-25 Life of a Philippine Family
- S-26 Boyhood of George Washington
- S-27 Philippines: Gateway to the Far East
- S-28 English Literature: Chaucer and the Medieval Period
- S-29 The Potlatch Story (pulpmill)
- S-30 Einstein's Theory of Relativity
- S-31 Six, Seven, and Eight Year-Olds—Society of Children
- S-32 A Moment in Love (interpretative dance)
- S-33 Do Higher Wages Cause Higher Prices?
- S-34 Question in Togoland
- S-35 Life in Haiti
- S-36 The Napoleonic Era
- S-37 Boy of Renaissance Italy
- S-38 Adaptations of Plants and Animals

Trustees Approve Leaves For Faculty Members

Leaves of absence have been approved by the Board of Trustees for the following faculty members:

✓ Dr. Mary P. Shelton, associate professor of clothing and textile research and director of the Ellen H. Richards Institute, Aug. 1 to Feb. 1, 1958, to visit textile research laboratories in universities throughout the country.

Ruth E. Gates, instructor in clothing and textiles, Sept. 1 to Feb. 1, 1958, to work full-time toward her doctor of philosophy degree on campus. She has been awarded a General Foods Corporation fellowship.

Guy H. Temple, assistant county agricultural agent, Sept. 16 to June 15, 1958, to work for the master of science in rural sociology.

George B. Lott and Ian B. Strong, research assistants at the Ordnance Research Laboratory, to do graduate work in physics during the current academic year.

Irwin Geller, research assistant in fuel technology, to do graduate work during the current academic year.

Bert Phillips, research assistant in geochemistry, to do graduate work.

Robert Grooms, counselor in the Division of Counseling, to work toward his doctor of philosophy degree.

✓ Dr. Martin W. Schein, assistant professor of animal behavior, Sept. 8 to Oct. 19, to do additional work for the Public Health Service of the U.S. Department of Health, Education and Welfare.

Leaves have been extended for Dr. William M. Breazeale, professor of nuclear engineering, Sept. 1 to Jan. 31; Edward R. Gilkey, instructor in speech, Sept. 1 to June 30; John Holub, research assistant in the research reactor, July 1 to Dec. 31.

Ebaugh Is Assistant Dean For Engineering Research

A new position of assistant dean for research in the College of Engineering and Architecture was created by the Board of Trustees as part of the reorganization of research activities in the College.

Paul Ebaugh, professor of engineering research, was named to fill the new position.

The department of engineering research has been replaced by the engineering experiment department, to be headed by Elmer R. Queer, who will have the title of director of the engineering experiment department and professor of engineering research.

The division of industrial reference will be transferred from the department of engineering extension to the jurisdiction of the assistant dean for research.

The purposes of the reorganization are: (1) to promote closer interrelation between teaching and research; (2) to strengthen the graduate programs; (3) to encourage more research by more faculty members.

Television Classes Reach 4,208 Students In 16 Classes

Closed circuit television on campus is reaching a total of 4,208 students in 16 different classes this year. The total is about the same as that of the past spring.

The courses being televised include two sections of a psychology course, four metallurgy classes, two accounting courses, and air science, archeology, economics, education, engineering, German, music, and sociology.

The program and research projects related to it are under the direction of the Division of Academic Research, headed by Dr. C. R. Carpenter, professor of psychology, with L. P. Greenhill as assistant director of the division.

Trustees Approve Seven Appointments

Seven new faculty members have been appointed. They include:

✓ Dr. Sara Ann Rhue, associate professor of education, who served on the faculty of the University of Wisconsin for the past six years.

✓ Dr. Louis B. Dupre, associate professor of anthropology, who was at the Research Studies Institute of the Air University, Maxwell Air Base for four years teaching and doing research in the Institute's Arctic, Desert and Tropical Information Center.

Dr. Richard M. Colwell, lecturer in accounting, former professor of accounting at the University of Massachusetts.

R. D. McCammon, research associate in physics, from Oxford University.

J. C. Tomkinson, research associate in chemistry, also from Oxford University.

Dr. Mortimer I. Kay, research associate in the X-Ray and Crystal Structure Laboratory.

Dr. Katsuya Inouye, research associate in geology, who was at the Natural Resources Research Institute at the University of Wyoming last year.

Philosophical Society Will Meet Oct. 26

Faculty members are invited to attend the annual fall meeting of the Western Pennsylvania Philosophical Society on Saturday, Oct. 26 in the Hetzel Union Building, Room 212.

The morning meeting, scheduled for 11 a.m. will feature an address by Dr. John M. Anderson, professor of philosophy, on "Human Nature and Universals." Comments on the address will be made by visitors from the University of Pittsburgh and Duquesne University.

Dr. Henry A. Finch, professor of philosophy, will moderate a panel discussion in the afternoon session, on the subject "Reason and the Resolution of Conflict." Drs. Henry W. Johnstone and Henry Hiz will be among the panelists.

Calendar

Friday, Oct. 18

Fluid Mechanics Seminar, 4:10 p.m., Room 1, Sackett Building. J. William Holl, on "Cavitation Inception of Surface Irregularities."

Players production of "The Carnival of Thieves", 8 p.m., Center Stage, directed by Kelly Yeaton, associate professor of theatre arts.

Musical revue "A Great Future" presented by Thespians, 8 p.m., Schwab Auditorium.

Saturday, Oct. 19

Football, versus Vanderbilt, Homecoming Day, 1:30 p.m., Beaver Field.

Freshman football, 10 a.m., versus Pittsburgh.

Players' production of "A Carnival of Thieves", 8 p.m., Center Stage.

Thespian show, "A Great Future", 8 p.m., Schwab Auditorium.

Coffee hour for alumni, faculty and former faculty members of the College of Home Economics, 10 a.m. to 12 noon, Home Ec Living Center.

Sunday, Oct. 20

Roman Catholic mass, 9 a.m., Schwab Auditorium.

Protestant Service, 9 a.m., Helen Eakin Eisenhower Chapel.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Roger L. Shinn, professor of historical theology, Vanderbilt University.

Jazz concert by Dave Brubeck and his quartet, University Students' Artists Series, 8:30 p.m., Recreation Building.

Monday, Oct. 21

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. D. F. Mitchell, assistant professor of genetics, on "Radioactivity and Genes."

General Electric Corp. show "House of Magic," 7 p.m., Schwab Auditorium, sponsored by the National Science Foundation.

Lectures on "Theories and Principles of Learning in Relation to the Improvement of Televised Instruction," by Dr. Lee J. Cronbach, professor of education and psychology, University of Illinois, and Dr. Neil E. Miller, professor of psychology, Yale University, 8:30 p.m., Room 112, Buckhout Building.

Exhibit of a turbojet engine, made by Pratt and Whitney Aircraft Co., 10 a.m. to 6 p.m., new parking lot west of General Extension Building. Also on Tuesday.

Tuesday, Oct. 22

Sigma Xi Lecture, 8 p.m., Mineral Sciences Auditorium. Dr. E. Cuyler Hammond, Yale University Medical School and the American Cancer Society, on "Cigarette Smoking and Lung Cancer—A Riddle in Cause and Effect."

Vesper Service, Helen Eakin Eisenhower Chapel, 4:30 p.m., Dr. D. F. Mitchell, assistant professor of genetics, the speaker.

Computer Application seminar, 4:10 p.m., 209 Willard Building. Verle N. Schrodt, on "A Relaxation Procedure for the Solution of Multi-Component Distillation Problems."

Wednesday, Oct. 23

Forestry convocation, 11 a.m., Room 121 Sparks. Roger Latham, outdoors editor, Pittsburgh Press, on "Game Birds of the Forest."

Marie Curie Lecture, sponsored by Iota Sigma Pi, women's national honorary society in chemistry, 8 p.m., Hetzel Union Building Assembly Room. Dr. Lucy W. Pickett, chairman, department of chemistry, Mount Holyoke College, on "Studies of Vacuum Ultraviolet Absorption Spectra."

Graduate School Lecture Series, 8 p.m., Room 121, Sparks Building. Dr. William H. Kilpatrick, professor emeritus of education at Teachers' College, Columbia University, on "Modern Education: What It Stands For and Why." Co-sponsored by the College of Education.

Thursday, Oct. 24

Engineering mechanics seminar, 4:10 p.m., 203 Engineering "A". Dr. Donald Laird, assistant professor of electrical engineering, in continuation of talk of "The Penn State Computer—PENNSTAC."

Vesper service, 4:30 p.m., The Chapel. Episcopal evensong.

Home Economics convocation, 4:10 p.m., Schwab Auditorium. Mary Brown Allgood, chairman of the division of commercial consumer services, on "Living With the Finns."

Liberal Arts College faculty meeting, 4:10 p.m., Room 121, Sparks.

Friday, Oct. 25

College of Agriculture faculty meeting, 4:10 p.m., Room 109 Armsby Building.

INAUGURAL ADDRESS

Of Dr. Eric A. Walker

OCT. 3, 1957

Recreation Building, The Pennsylvania State University

I accept with humility and with pride this mace as the symbol of the Office of the President of The Pennsylvania State University and return it to the custody of the University Marshal.

In its 100-year history, Penn State has had 11 presidents before me—brilliant men, dedicated men, men of great courage and vision—men like Dr. Evan Pugh, whose energy and strength of character kept alive during the difficult days of the Civil War the splendid dream of those who founded the Farmers' High School—men like George W. Atherton, who, even before the turn of the century, clearly foresaw Penn State's destiny as a great state university, the capstone of the public school system of Pennsylvania—men like Dr. Edwin Erle Sparks, who achieved remarkable successes in interpreting the role of the College to the people of the Commonwealth and who is largely responsible for our extension program through which we "carry the College to the people"—men like Ralph Dorn Hetzel, whose tactful but vigorous insistence that if Penn State was obligated to public service, it was, in turn, entitled to adequate public support led to tremendous expansion at Penn State even during the bleak days of the Great Depression and World War II—men like Milton Stover Eisenhower, under whose enlightened guidance the College became the State University of the Commonwealth of Pennsylvania.

In these 100 years, much was achieved. When the Farmers' High School opened its doors to 69 students in the winter of 1859, the opportunity for a college education had been steadily shrinking in our country in proportion to the population, and the possibility of attending college was being more and more restricted to an elite class. Further, the education offered at these colleges bore little correlation to the life that the majority of the people actually lived. Limited, in the most part, to teaching a young man how to

be a gentleman or to enter one of the learned professions, these colleges seldom prepared a boy to take his place in the economy of the nation or to help carve an empire out of the wilderness.

The Morrill Land-Grant Act, passed in 1862 and signed into law by President Lincoln, was designed to change all this. Its purpose was to establish a system of colleges that would provide an education at a cost low enough to bring it within the reach of every boy and girl with the ability to profit from it. Further, the programs offered by these new colleges were to be determined by the actual needs of the country.

In this way, the concept of public education was extended to the collegiate level, and a higher education was born that was both sensitive and responsible to the economic, social, and cultural life of the nation and of the several states within it. Since this concept closely paralleled the guiding principles of those who founded Penn State, it was only fitting that the Farmer's High School, which was named the Agricultural College of Pennsylvania in 1862, should be designated as Pennsylvania's land-grant college.

Since the passage of the Morrill act, truly significant achievements have been made. The world's greatest system of agricultural experiment stations has pointed the way for fewer farmers to produce more food and fiber on less land and, by doing so, has enriched the economy of the country by billions of dollars annually. In fact, much of the credit for our high standard of living—the highest in the world—is due America's great system of public colleges and universities, not simply because they supply most of the professional people upon whose knowledge and skill our economy rests but also because much of the research on which our material and economic progress is based is performed in their laboratories by their faculties.

More difficult to measure but surely no less important is the impact on our society and culture of the millions of college and university graduates who have gone forth from the halls of our public institutions in the last century. In 1870, only 52,000 young people were enrolled in our colleges and universities; this year, about 3 million are, an increase of almost 5000 per cent. In 1870, only one person in 740 of the total population was enrolled in college; in 1953, the ratio was about one in every 74 people. In 1870, only 9000 degrees were conferred by colleges and universities in the United States; in 1953, over 350,000 students received degrees, more than half of which were granted by public institutions.

Throughout this past century, Penn State's record of service has always equalled and often surpassed that of its sister institutions—the land-grant colleges and state universities of our country. The original class of 69 students has now grown to an enrollment of almost 17,000 young men and women. Another million people are served each year through our extension programs. Our faculty now totals over 1600. Our research budget grew from less than \$400,000 in 1930 to almost \$7½ million two years ago.

As brilliant as these achievements are, much remains to be done. In fact, within the next 10 to 15 years, Penn State, along with its sister institutions, faces the greatest challenge in its history—a challenge that also provides it with a tremendously exciting opportunity for realizing to a far greater extent than was ever before possible the splendid dream of those who shaped Penn State's destiny in the past.

This challenge—and the opportunity that goes with it—stems from two harsh, irrevocable facts. In the first place, we have given the Commonwealth of Pennsylvania, at long last, a state university. We want this university to be one the people of Pennsyl-

vania can be proud of. But, so far we have realized this ideal only imperfectly, and we have much to do before we can take our place, in fact as well as in name, among the great universities of our nation.

And, in the second place, we now know that we shall be expected to provide an education for at least twice as many Pennsylvania youth within the next few years as we have provided in the past. This fact, and the statistics behind it, are well known to this audience. But our familiarity with it does not reduce its importance or make it less formidable.

These factors are summarized by the President's Committee on Education beyond the High School in its second report in these words—"an explosion of knowledge and population, a burst of technological and economic advance, the outbreak of ideological conflict and the uprooting of old political and cultural patterns on a world-wide scale, and an unparalleled demand by Americans for more and better education."

Here is the challenge—and the opportunity. To meet the one and to realize the other, Penn State will have to effect something that approaches an educational miracle within the next few years.

But we have little choice in whether or not we accept the challenge. We must accept it. The price of not doing so is too great to permit us the luxury of protesting the impossibility of the job before us. The personal, social, economic, and political scars that would result from a restriction of educational opportunity in Pennsylvania should alone be enough to fortify us in courage and strengthen us in dedication.

We are today, in fact, facing much the same challenge that faced those who founded Penn State and guided its destinies during the early days just 100 years ago. Now, as then, we face the need for providing a higher education for a rapidly expanding population with grossly inadequate facilities and faculties. Now, as then, we face the very real prospect of seeing the educational opportunity in both our state and our nation steadily shrink in relation to our population. Now, as then, we face the danger of being forced to restrict the possibility of college going to an elite, privileged class. And now, as then, the crisis can be met only through a dramatic expansion of our public institutions of higher education.

If we face up to this challenge with the same courage, foresight, and dedication with which our pioneers met their challenge, we shall not fail the people of Pennsylvania.

But dedication and courage are not alone enough. We must know what to do. We must have sound plans based on sound information. Our resources are too precious to waste on misdirection, false starts, and inefficient schemes, however admirable they are in concept.

As perhaps you all know, a long-range study carried out under the guidance of Dr. Eisenhower was made in 1954. This study is now being brought up-to-date under the direction of Mr. Wyand, Vice-President for Development. This study should provide us with the information upon which we can make sound, practical plans for guiding us through the difficult years that lie ahead. But we do not have to await its completion to know some of the things we must do. We do not need it to tell us what many of our most pressing problems are going to be. And we must not wait even the few months necessary for its completion to start to work on some of these problems.

We know, for instance, that, as the state university of Pennsylvania, our responsibilities are broader than they were when we were just a college. We shall, for example, be expected to provide a sound, rigorous university training for all Pennsylvania youth who want it and who are capable of profiting from it. What must we do to discharge fully our responsibilities in this area?

We cannot do it by limiting our enrollment to the upper ten per cent of the population in intelligence, as many seem to think we should. Perhaps this would work if all of us were born either with or without the capacity to profit equally from a fixed, one-level collegiate training and if our society needed only two types of people—the workers and the thinkers. But this situation just does not exist. Our society is more complex than that. We need workers AND thinkers at all levels—the artisans, the technicians, the professionals, the scientists, even the dreamers. Nor are our people so easily classified. In fact, almost the only thing that can be said positively about them is that they are not equal in their abilities, their intelligence, and their willingness to work.

We can do it only by devising an educational system within which each boy and girl can realize his full potential, a system that will challenge each individual talent to reach its fullest development.

To do this, we shall have to study the educational needs of the Commonwealth and then construct programs aimed at satisfying those needs not just at one level but at several. The traditional one-tier system of higher education is extremely inefficient and wasteful of our most precious resource—the talent and capacity for education of our youth. By forcing all students into the same educational mold, we lose the less talented ones altogether, and we fail to provide the most gifted and most ambitious ones with challenges sufficiently vigorous to develop to their full capacity.

Penn State has, I think, made a significant start at correcting these ills by pioneering the two-year associate-degree programs offered in our Centers

and by offering an increasingly greater number of honors courses and programs aimed at challenging the outstanding student. This beginning establishes the direction we must take, but much yet remains to be done.

Further, we started this past summer a program of testing and counseling all entering freshmen. This program brought many students and their parents to the campus to meet with professional counselors in an attempt to fit each student into the program in which he will be most happy and productive. We are justly proud of this program and are certain that it will bring tremendous results in the future, both in personal happiness and in productive achievement.

As these programs—that to provide curricula divided not simply by subject matter but also by level of difficulty and that to match the student's abilities and desires with the course he pursues—are expanded, however, we shall have to re-evaluate our admissions procedures. If we are to abandon the one-tier educational system, we shall probably also have to abandon our one-door admissions system in which we demand essentially the same entrance requirement for all students, regardless of the course or curriculum the student desires or is best suited to take. Neither the testing program nor the diversified program of curricular offerings can operate at maximum effectiveness if we limit our enrollments on the basis of the number of facts the student knows or his mark on an intelligence test. The only examination I would gladly accept as a valid criterion for admissions to Penn State would be one that measures the student's willingness to work to get an education.

We must not forget, however, that there is a hard core of information, a certain set of attitudes, a level of ability that should be expected of all university graduates. The educated man is one who is at home in his time and place. Today this hard core would certainly include some knowledge of the physical sciences, of the biological and social sciences, and of the arts and humanities. It would certainly include the ability to communicate by listening and understanding, by reading and writing. It would certainly include the ability to think and reason in quantitative terms. It would certainly include the ability to understand the arts, music, painting and sculpture, and our literature, and to seek beauty and truth in them.

We must remember this in all our courses and programs. But to strengthen it, we have devised a series of programs and courses which are rigorous and demanding but which are not in themselves directed at providing a structure on which a professional education can be erected. These courses are aimed at a broad, inter-disciplinary orientation. They are aimed at an understanding of principles rather than at an ability to handle facts. They are aimed at understanding rather than

memorization, at the synthesis of knowledge rather than its analysis, at integration rather than fragmentation. Such programs, we feel, are eminently in keeping with the university ideal, and we are proud of the beginning we are making this year in this area.

To realize the state university ideal, we shall have to provide not simply increased educational aids for the students but also more financial ones. It is our hope that no deserving young man or woman is denied an education at Penn State because of financial reasons. The harsh economic facts of life are such that we have been forced to raise our fees. At the same time, however, we have relaxed certain of our regulations concerning student loans and hope soon to increase significantly the number of scholarships we can offer. In fact, this year we have initiated the policy of permitting each scholarship recipient to borrow an amount equal to the amount of the scholarship to increase its practical value.

But The Pennsylvania State University is responsible to the entire population of the Commonwealth, not just to its youth. In the past, I feel that we have discharged this responsibility only imperfectly. In one area, that of agriculture, we have achieved tremendous success — success of which we are very proud. We need, however, to devise methods and means by which we can extend the same sort of help to the industry and business of the state. In today's complex world, industry and business need a continual source of ideas and information. Many companies are not equipped — and cannot be equipped — to provide this information from within their own organization. No company, no matter how large, can properly cover all areas of science in its research laboratories.

Here at the University we cover a wider range of knowledge than any one company can ever hope to cover. Where else can one find in one location definitive knowledge on the latest and most effective methods of identifying the different kinds of clays, on the ability of ceramics to withstand thermal shock, on methods of improving efficiency in marketing industrial equipment, on the best methods of storing perishable foods, on labor education, physical characteristics of a magnesium alloy, on certain micro-organisms, on the effect of high temperature on fuels and lubricants. Yet all this, and much more, has been disseminated by the University in the past year and is available to any business or industry in the state.

We hope to find practical methods of making information of this sort available to Pennsylvania industry and business on a much wider scale than has been possible before — to achieve, that is, much the same sort of partnership with Pennsylvania business and industry that we have already achieved with Pennsylvania agricultural interests. To this end, we have established the office of Vice-President

for Research and a central research organization through which we can tap the resources of the whole University.

Our responsibility to the people of the Commonwealth includes the obligation to operate our programs and to provide our services as inexpensively as possible. We must, therefore, make certain that we are using our facilities at their greatest possible efficiency. The nine-months school year was perhaps once an economic necessity, but that necessity no longer exists. It is becoming increasingly difficult to defend a system in which a costly physical plant must be maintained for 12 months in order to achieve essentially only eight months of actual service from it. Because of this and to realize the possibility of providing an education for one-fourth to one-third more students with our present facilities, we shall soon have to replace our traditional semester system with either a quarter or a trimester system. Such a system, intelligently administered and sympathetically supported, would permit us to operate on a 12-month basis. With a quarter system, for instance, an unusually ambitious student could get his first degree in three years rather than in four by going to school throughout the year. Others — for example, those who must work to pay part of their expenses — could stagger their term off to permit us to accept a third more students than we now can. Further, it would prevent the inefficiency of part-time operation. A system of this sort need work no hardship on the faculty since each faculty member would probably teach only three terms each year, spending the fourth term for research, relaxation, or study. Of course, not all these terms off could be granted during the summer months. Some would have to take them off during the winter months, surely a not unpleasant prospect, considering the possibility of escaping the ice and snow of Centre County during January, February, and March.

The greatest single deterrent to such a plan is the break with tradition that it provides. We shall all of us — students as well as faculty members — have to revise our concept that education is a nine-month job. We can no longer afford the luxury of this concept.

The improvement of our educational offerings can also result in improved efficiency. One of the persistent criticisms of the American system of higher education is that we "spoon-feed" our students. If we are to present our students with challenges sufficiently vigorous to develop their full potential, we shall probably have to insist that they accept more responsibility for their own education. We know that many students have both the initiative and the judgment to accept such responsibility; nonetheless, we require all alike to follow the same treadmill of three class hours each week for three credits of work. The development of reading periods, of courses that are given by

examination only, and of courses that depend more on independent study and individual student performance and less on lectures is dictated by our mandate to provide the best possible kind of education for all Penn State students. Such improvements could, moreover, help to conserve the valuable time and increase the productivity of our faculties.

Further, we must not overlook the possibility of applying modern technological advances where their use proves to be helpful either in improving the education we provide or in increasing its efficiency. In this area, I am proud of Penn State's pioneering experiments in educational television. Through television, we shall be able to extend superior teaching to greater numbers of students to a degree never before possible. Further, for certain kinds of instruction, television seems to provide a better learning situation than can be achieved by any other method. Imagine the educational value of a device that permits hundreds of students to view a delicate experiment from the best possible vantage point, a situation impossible to achieve with even a dozen students clustered around a professor's work bench.

Actually, we need to increase our research in every area of the educative process. As the state university of Pennsylvania, we have a distinct responsibility for the development of new knowledge and new theories through research. In most areas, we have discharged this responsibility with distinction. In the field of our major concern, however, our record, along with that of other colleges and universities, is undistinguished. Throughout our universities today — especially, perhaps, in the "hard" sciences, where research is most extolled — we have many teachers who have no formal knowledge of the learning process, no understanding of the methods by which knowledge is transmitted, no clear idea of the processes by which the performance of students can be accurately tested and measured.

All big organizations and institutions today spend money for research on what they are doing, how they are doing it, on the products they now have and on those they might have in the future. All, that is, except the universities. This is particularly true in the broad area of creativity. Although creativeness is our greatest need today, we simply do not know anything about it — how to develop it, how to recognize it when it exists, how to provide an atmosphere in which it can flourish.

To find the answer to questions such as these, we have this year established the Division of Academic Research and Services. I hope it will devote considerable attention to the methods of teaching in the sciences as well as in the humanities and the arts. Eventually I hope that a body of sound knowledge will be built up rivaling that which we already have in the sciences them-

selves and that, in the future, no one will undertake to teach at the university level without some elementary knowledge of the learning and teaching processes.

Our responsibility, of course, extends beyond the University Park campus. In accepting the challenge for providing leadership in education in Pennsylvania, we must not fall victim to the urge to try to be all things to all people. No one university can be great in all fields, and we shall have to select certain areas in which to concentrate. Otherwise, we shall spread our resources so thin that we shall be bound to fail in many of our attempts. We cannot make this selection by confining our investigation to our own structure. Rather, we shall have to determine the educational needs of the Commonwealth, and then correlate those needs with the available facilities and programs, not simply at Penn State but also at our sister institutions. We must see that all necessary areas are adequately taken care of, but we must avoid the possibility of inefficient duplication.

Where should we start in selecting particular areas for development at Penn State? Perhaps a start has already been made. More by accident of location than by design, we are not called upon for any effort in law, medicine, or dentistry, and there seems to be little reason for us to consider establishing programs in those areas now. On the other hand, there are certain areas in which we, by the nature and character of our growth, are already doing excellent work and in which we have achieved considerable recognition. For instance, we are already one of the leading universities in the country in the agricultural and biological sciences. In the physical and chemical sciences, too, and in the mineral sciences, we have already made our mark.

In other words, our natural growth has perhaps given us a start and may provide us with some clues about the direction we should take. But before we go very far, we must assess the needs of the Commonwealth and then determine whether Penn State or one of our sister institutions is best fitted to satisfy that need. Only in this way, can we best serve both ourselves and the Commonwealth.

Our co-operation with our sister institutions must not be limited simply to curricular development. I should like this co-operation to extend even as far as the exchange of faculty between Penn State and other Pennsylvania colleges and universities. We should be glad, for instance, to have their faculty members to come here to teach while working toward an advanced degree, just as we would encourage our faculty members to accept similar offers from the other colleges. Such an exchange, I believe, would prove to be very helpful in strengthening the entire system of education beyond the high school in Pennsylvania.

To meet the challenge of the future, it is imperative, of course, that the University have an efficient, economical administrative organization. The operation of the Pennsylvania State University is big business, no matter how it is measured — by its gross expenditures of some \$35 millions a year, by its capital evaluation of around \$70 million, by its 4000 employees, or by the fact that, if both students and faculty are counted, it daily affects the lives of over 20,000 persons. We must, of course, do everything in our power to preserve our academic freedom, for this is the foundation upon which the creativeness of our faculty is built. But we cannot tolerate an anarchy in which an individual is permitted to act to the detriment of the remainder of the faculty or of the University as a whole.

We believe that we have such an administrative organization, an organization that will permit the University to grow logically and soundly to its full potential as a great state university. Although this organization has been in operation only a short time, it seems to be working out quite satisfactorily. I hope to have an opportunity to discuss it with the faculty later during this term. In this talk, however, I should like to mention briefly only two of its more important aspects.

In the first place, we now have parallel committees in the Board of Trustees, the University Senate, and the Administration in all major areas of concern among these groups; academic affairs, procedures, research, extension, and student affairs. Through this arrangement, all deliberations and actions can be channeled quickly and easily to all interested groups. I believe this organization has already proved its effectiveness in providing adequate communications among the various groups of the University.

In the second place, we expect to continue to strengthen the University Senate and its committees so that it may serve fully as the major policy-making body of the University faculty. The policies of the Senate, upon approval of the Board of Trustees, become University policy to be followed by all colleges and departments.

There is one further responsibility that I should like to discuss briefly this morning — our responsibility to our faculty. As you and I know, faculty salaries have not kept pace with the general rise in the economy, and much of our energy must be directed at correcting this situation. I believe firmly that the laws of economics, rather than seniority, must govern faculty and staff promotions and salaries. I believe, however, that as many dangers exist in overpaid mediocrity as in underpaid brilliance. Both contribute to unfairness; but, whereas the one causes us to lose our best men, the other militates against our chances of realizing our potential greatness for years to come.

We want the title of professor at The Pennsylvania State University to mean something more than that its

holder is an adequate, or even a good, teacher or research worker. We want it to mean that here is a man who has made a real contribution in his field a man worthy of being recognized as a distinguished teacher and scholar not just in University Park, but throughout the state and nation and perhaps even internationally. We must ask why one man should be a professor and receive twice as much salary as another who is only an instructor if they both teach the same courses and it cannot be shown that the first teaches them twice as effectively as the second. By the same token, we must ask why a professor who teaches 50 students as effectively as another teaches 10 should not be paid considerably more than the other, since he is contributing more to the University's effectiveness as an educational institution.

The success with which we meet the challenge of the next few years — and the degree to which we realize the opportunity inherent in that challenge — depends on how well we balance the four factors that constitute that challenge and govern our operations: (1) the student body, which must grow in accordance with a well-constructed, logical plan if we are to achieve our greatest service to the Commonwealth; (2) our physical plant — the dormitories, laboratories, classrooms, and office space — through which we provide living quarters for the students and working space for both students and faculty both at University Park and at our Centers; (3) the faculty itself, which must grow not simply in numbers to keep pace with the student population but also in quality if we are to become a great university; and (4) the funds with which to carry out an ordered expansion in the other three areas. Not one of these can be allowed to fall behind the other; to permit such imbalance would be to do less than a proper job, or to do that job wastefully.

It is not going to be an easy job. It will require the very best that all of us have to offer. But it is no more difficult than the job that faced the founders of the Farmers' High School 100 years ago. If we face our task with the same determination, the same dedication, the same courage and wisdom with which they faced their task, we shall not fail.

At the beginning of my talk, I said that I accept the Presidency of The Pennsylvania State University with humility and with pride — with humility because I am fully aware both of the stature of the men I have been elected to follow and of the problems that lie ahead — with pride because I can think of no honor greater than that of being permitted to serve as President of The Pennsylvania State University. With your help — the Trustees, the faculty, the staff, the students, the alumni, friends of the University — I shall do everything in my power to realize fully for Penn State the magnificent and inspiring dream of her founders.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Concert Association Completes Program

Four concerts have been booked by the State College Concert Association for 1957-58.

The programs, to be presented in Schwab Auditorium at 8:30 p.m., includes: Pittsburgh Symphony Orchestra, William Steinberg conducting, Nov. 19; Philippe Entremont, French pianist, Dec. 11; Andres Segovia, Spanish-born guitarist, Mar. 31; the Roger Wagner Chorale, April 8.

Under an arrangement completed between the University Artists' Series and the Association, the 330 unsold memberships of the Association will become available for distribution to students. The plan assures a full house for all concerts; makes available 1320 concert seats for students; and enables the Association to book a series based on a capacity membership.

Hillel Schedules Series Of TV Documentaries

The first of six Sunday evening programs in a series of Television Film Forums will be presented at the Hillel Foundation, 224 Locust Lane on Sunday, Oct. 27 at 7:30 p.m.

The series will feature kinescope recordings of distinguished television documentaries, with a faculty commentator and discussion leader.

The first program will feature the film on the constitution, presented last year over Omnibus, entitled "With Liberty and Justice For All." Dr. Frank J. Sorauf, assistant professor of political science, will be the faculty commentator.

Subsequent programs will deal with Leonard Bernstein's lecture on Beethoven's Fifth Symphony, Ed Murrow's interview with J. Robert Oppenheimer, Drew Pearson's report on the Holy Land, the Ford Foundation program on Segregation and the South, and the Armstrong Circle program on the Dead Sea Scrolls.

Philosophy Society Meeting Tomorrow

The fall meetings of the Western Pennsylvania Philosophical Society will be held tomorrow in the Hetzel Union Building at 11 a.m. and 2 p.m. The meetings are open to the faculty.

Department of philosophy faculty members who will participate include Dr. John M. Anderson, Dr. Henry W. Johnstone, Jr., Dr. Henry T. Hiz, and Dr. Henry A. Finch.

Experimental Theatre Gives Play For Political Science

The Penn State Experimental Theatre will present "The Trial of Socrates" on Wednesday, Oct. 30, at 9 a.m. in Room 121, Sparks Building.

The drama is part of the instructional program of the course, Political Science 3, but faculty members and the student body are invited.

Computer Seminar Scheduled Wednesday

The Computer Applications Seminar, normally scheduled on Tuesday, will be held on Wednesday of the coming week. The program on Wednesday, Oct. 30, will feature Dr. Vladimir Vand, associate professor of physics, on "Solution of Crystallographic Problems on the IBM 704."

Dr. Werboff Joins Economics Staff

Dr. Lawrence L. Werboff, who has held appointments at the University of California, Northwestern, and Cornell College, has been named assistant professor of economics.

Native of New York City, Dr. Werboff received his master of arts degree from Columbia University and doctorate from Stanford. While at Northwestern, he edited and produced a television series on "The American Economy in Action." He has done research in the field of consumer credit and monetary policy.

Student Artist Series Tickets Available Oct. 30

Faculty members and other non-students may purchase tickets next week for the program to be presented in Schwab Auditorium on Monday, Nov. 4, by the Hungarian Quartet.

The tickets, priced at \$1.00, will go on sale at 9 a.m. Wednesday, Oct. 30. The sale will continue from 9 a.m. to noon and 1 to 5 p.m. on both Wednesday and Thursday at the Hetzel Union Desk. Students may pick up their tickets Monday afternoon, Oct. 28, and Tuesday, Oct. 29, and if tickets remain, the following Monday, Nov. 4.

The concert is the fourth in the series sponsored by the Artists Series.

Dr. Hexner To Discuss Common Market Agreements

Dr. Erwin Hexner, head of the legal division of the International Monetary Fund, will discuss the effects of the recently concluded agreements concerning the formation of a common market in Europe on Wednesday, Oct. 30, at 3 p.m. in the Hetzel Union Building auditorium.

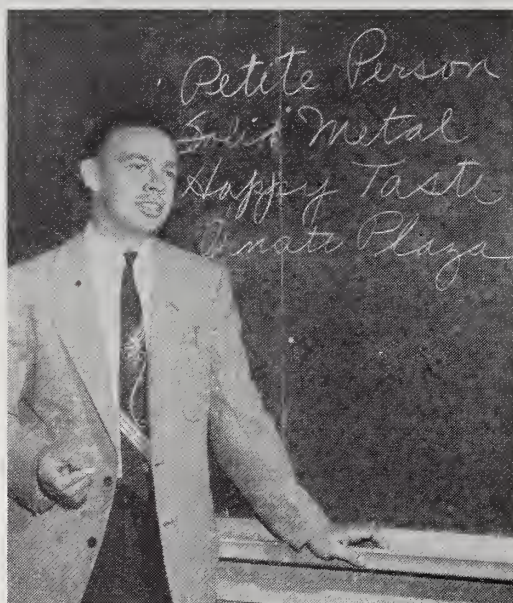
The lecture by Dr. Hexner, who is a former professor of political science and economics at the University of North Carolina, is sponsored by Pi Gamma Mu, National Social Science Honor Society and by the Economics Club.

New Forms Available For Exchange-Visitor Program

All students and visitors coming to the University under the Department of State Exchange-Visitor Program must submit a form DSP-66 to their consulate, advises Dr. William H. Gray, director of international student affairs.

These forms are available at Dr. Gray's office. Dr. Gray will certify and forward the completed form. Departments should fill in the appropriate information bearing on the terms and kind of program.

Dr. John F. Hall, associate professor of psychology, prepares a set of noun-adjective combinations which he will use in a study of the learning and forgetting of materials. Rather than use nonsense material, customary in past studies, he will use combinations having real meaning. The study should be of help to teachers and students alike.



Hall To Study How Students Learn And How They Forget

IN spite of the fact that learning (and forgetting) are factors of major importance in education at any level, comparatively little experimental work has been done in these areas with educational materials.

What, for example, is the influence of learning one type of material on the learning and forgetting of another?

Is it wise to take elementary French and Spanish during the same semester?

How should classes be scheduled in order to produce most efficient learning?

Questions like these plague school administrators, teachers, and psychologists because they affect teaching methods, exam techniques, lecturing methods, and many other phases of education.

Unfortunately, little is known of the learning and forgetting of educational, or "meaningful" material—the kind the student typically encounters. Dr. John F. Hall, associate professor of psychology, has done some experimenting in this area in the past. With the help of a grant from the Research Council this year, he will do more.

"Almost all of the experimental work that has been done in the learning and forgetting area," Dr. Hall says, "is, from an educational point of view, difficult to evaluate."

This is so because such studies have used either single isolated words or nonsense syllables in their experimental material. (Nonsense syllables which are frequently used in human learning studies are composed of two consonants separated by a vowel and have no particular meaning. XAP and TIV are typical examples.)

"From an experimental point of view the use of such material is desirable because it controls the subjects previous experience," Dr. Hall continues. "The difficulty is that generalization to educational material is tenuous."

Three years ago, aided by a grant from The American Philosophical Society, Dr. Hall and his associates started an investigation of learning and forgetting using material composed of typical sentences. Unfortunately, such material did not lend itself to very precise control, which complicated interpretation of the results.

"This year," he points out, "we hope to produce more controlled studies by using adjective-noun combinations."

"The calibration of the meaningfulness of many of the combinations we plan to use was done last year by a student as part of an honors course. Such calibration provides us with some idea of the kind of material with which we will be working."

Students will be asked to study these adjective-noun combinations by projecting the words on a screen for a controlled amount of time. Then other learning situations will be introduced to study the effect of this new material on the retention of the original word combinations.

"There are a number of variables," says Dr. Hall, "which we plan to manipulate, such as the meaningfulness of the combinations used, the number of such combinations on the list, and so on. But this will be our basic design."

The influence of learned material on the recall of previously learned material is known as "retroactive inhibition" and has been generally regarded as one of the important variables in determining forgetting. A number of principles have been established from studies in the area but meaningful materials have not been used. The new investigation by Dr. Hall is a modest beginning in the use of this kind of material.

"Even if we do obtain the results we hope to find," points out Dr. Hall, "the generalizations applied to the practical problems of learning and forgetting will continue to be hazardous. How-

ever, a start will have been made in such a solution.

"It isn't difficult to imagine how retroactive inhibition fits into the teaching pattern. If we knew all the answers in this field, we probably could make many recommendations to teachers."

There would probably also be a number of hints to students, relative to study habits. Undoubtedly many students would appreciate knowing how they can best retain what they have once learned—at least until the exam is over.

University Owns Largest Library Of Australiana

The University has the largest collection of "Australiana," including original works of art and literature, owned by an American university.

Thanks to the interest and work of Dr. A. Bruce Sutherland, acting head of the department of English, and an earlier department head, Dr. W. S. Dye, Penn State was chosen as the recipient of the Thomas and Henry Ingram Moody Memorial Collection of Australiana.

The collection was donated to the University in 1952 by an Australian art-lover and collector, Mrs. N. W. Moody, of Perth, in memory of her two sons who were killed in World War II.

Penn State's courses in literature of the British Commonwealth countries, with particular interest in Australia, led to its selection as the American university to receive this gift. Dr. Sutherland, who is a specialist in Australian literature, spent the 1951-52 academic year in Australia on a Fulbright fellowship and brought back many books about the country.

About 200 works of art comprise the Moody collection, including oil paintings, etchings, pen and ink sketches, water colors, pastels, prints and sculpture. In addition, there are more than 300 books.

The University library now has the most complete list of Australian literature in the United States. The book collection is largely literary and includes works by outstanding Australian authors of the past and present. This collection is being steadily augmented by gifts from various sources.

300 Alumni To Attend Conference On Fund

Nearly 300 alumni will attend the Penn State Alumni Fund Chairmen's Conference to be held at the Hetzel Union Building Friday and Saturday, Nov. 1 and 2, at which plans will be made for the 1958 Alumni Fund.

Robert W. Ostermayer, of Clairton, has been named chairman of the 1958 Fund, succeeding George S. Rose, of New York, N.Y.

J. J. Gerber, of Chicago, Ill., former vice-president for development at Northwestern and now a consultant to various colleges and universities, will speak at the Friday night banquet.

Items of Interest

Christian K. Arnold, staff assistant to the President and associate professor of engineering research, will conduct a technical writing seminar in the monthly magazine, *Military Electronics*.

Dr. Gerald M. Torkelson, associate professor of education and Dr. Eugene Oxhandler, assistant professor, participated in the annual Schoolmen's Week at the University of Pennsylvania last week. Both presented papers.

Dr. Harold J. Read, professor of physical metallurgy, attended meetings of several working committees of the American Society for Testing Materials last week in Philadelphia.

Dr. W. Conrad Fernelius, head of the department of chemistry, is on a speaking tour in New York State for the national office of the American Chemical Society.

Dr. Donald G. McGarey, professor of education, directed the Teachers Institute in Elk County recently. Other faculty members who participated included Dr. Chester T. McNerney, Dr. Nell Murphy, Hazel Daniels, Jeanette Molloy, and Dr. Florence E. Taylor.

Dr. Guy Rindone, assistant professor of ceramic technology, is co-author of a paper describing methods of measuring heat content of glass. The paper was presented by G. S. Smith, graduate assistant, before the fall meeting of the Glass Division of the American Ceramic Society last week.

Dr. Robert W. Taft, Jr., professor of chemistry, will be guest speaker at the meeting of the North Jersey section of the American Chemical Society next Monday. He has also been invited to address the chemistry department of the University of Maryland on Nov. 7, in connection with the celebration of the university's centennial.

Dr. C. Courson Zelif, assistant professor of zoology, has been invited to attend a symposium on resistance and immunity in parasitic infections at Rice Institute, Houston, Texas, which will building early in 1958.

Dr. Elton S. Carter, associate professor of speech, was elected vice-chairman of the General Semantics and Related Methodologies Interest Group of the Speech Association of America at the recent convention of the Association in Boston. Dr. Ilene Fife, associate professor of speech, was named chairman of the Interest

Group for Undergraduate Speech Instruction.

Dr. Harold E. Nelson, associate professor of speech, was named vice-president of the Pennsylvania Speech Association recently.

Dr. Lester P. Guest, professor of psychology, addressed the sixth biennial Marketing Research Institute, in Minneapolis, Minn., last week on "Studies in Brand Loyalty."

Dean Ossian R. MacKenzie, College of Business Administration, was elected to the executive committee of the Middle Atlantic Association of Colleges of Business Administration recently, at a meeting of the Association at St. Bonaventure College in Olean, N. Y.

Dr. Hugh M. Davison, professor of educational research, visited schools in Lebanon County last week in connection with the evaluation of educational programs for schools in various stages of district reorganization.

Clarice D. Gullickson, professor of hotel and institution administration, speaks today at the meeting of the American Dietetics Association in Miami, Fla., on "Determine Your Needs from the Portions You Serve." Alma G. McDougall, associate professor of hotel and institution administration, will represent the Pennsylvania Dietetic Association at the meeting and Dr. Miriam Lowenberg, professor of foods and nutrition, will participate in the program as a State delegate.

Dr. Joseph F. Krawiec, assistant professor of clothing and textiles research, has been reappointed as special consultant to the Committee on Laundry Management of the American Hospital Association.

Graduate Lectures In November by Perkins, Judd

The next two lectures in the Graduate School Series will take place Tuesday, Nov. 12 and Wednesday, Nov. 13 when the foreign policy of the United States Today."

The following evening, the Honorable Walter H. Judd, Congressman from Minnesota and member of the House Committee on Foreign Affairs, will discuss "A Reappraisal of Foreign Aid."

Both lectures will be given at 8 p.m.; that by Dr. Perkins will be held in 121, Sparks Building and the lecture by Dr. Judd in Schwab Auditorium.

Dr. Perkins, who is the John L. Senior professor of American civilization at Cornell University, is chairman of the council of the Harvard Foundation for Advanced Study and Research. He is the author of many historical books, including "The Evolution of American Foreign Policy" and "The American Approach to Foreign Policy."

Dr. Judd, a physician and surgeon, was a medical missionary in China from 1925 to 1938.

Report from the Registrar

WITHDRAWALS (Campus)

- Gr Bennett, Paul Edmond, Oct. 4
- 3 Bleier, Ronald P., Coun, Sept. 26
- 2 Bobak, Victor Vincent, ME, Oct. 10
- 3 Burke, William H., Coun, Oct. 11
- 3 DeFilippo, Michael, Chem, Oct. 7
- 3 DeNone, Joseph J., Coun, Oct. 11
- Sp Garland, Coleen A., Oct. 8
- 2 Garland, Theodore, Ed, Oct. 12
- Gr Grendon, Howard T., Oct. 7
- Gr Hopkins, James Emory, Oct. 2
- 1 Kinsey, Wallace Robert, EE, Oct. 10
- 1 Locke, Jr., David Dyer, ME, Oct. 1
- 1 Martoredjo, Musnatoro, PNG, Sept. 27
- 7 Olson, Gail Lois, SecEd, Oct. 7
- 2 Russell, Carol K., Psy., Oct. 9
- 1 Scache, George Thomas, EE, Oct. 4
- 3 Schleiger, Eugene, EE, Oct. 11
- 1 Seruga, Maryose Judith, BA, Sept. 21
- 1 Smith, Colleen Graves, HEC, Oct. 12
- 1 Stuchel, Daphne L., Arts, Oct. 11
- 4 Szwast, Anthony, ME, Oct. 8
- 3 Teifeld, Robert Stuart, EE, Oct. 9
- 3 Trench, Judith Irene, Arts, Sept. 20
- 1 Wadolny, Joan L., BA, Sept. 20
- 3 White, Carter Gail, ELED, Oct. 5
- Gr White, Donald C., Sept. 20
- 2 Calleri, Salvatore G., Coun, Oct. 15
- 1 Fisher, Norman Boyd, EE, Oct. 15
- 3 Glass, James F., Coun, Oct. 18
- 3 Higgins, Terrance Lee, For, Oct. 16
- 1 Markiewicz, Eugene W., ME, Oct. 14
- 1 Royer, Nancy, SecEd, Oct. 17
- 1 Waddell, Carol Louise, HEC, Oct. 16
- 4 Wagman, Sander Robert, ME, Oct. 15
- Gr Weaver, Charles Henry, EE, Oct. 17

WITHDRAWALS (Centers)

Bachelor Degree Program

- 1 Christenson, Mary Elizabeth, Chem, Oct. 7
- 3 Douglass, Samuel Walter, Coun, Oct. 11
- 3 Felton, Harry Lietz, Journ, Oct. 11
- 1 Fernandez, Floyd, PT, Oct. 7
- 3 Foerst, Eleanor J., Coun, Oct. 15
- 1 Furlan, Louis S., EE, Oct. 7
- 1 Irvin, Robert Wayne, Psy, Sept. 27
- 2 Metzler, Richard Winfield, CE, Oct. 11
- 1 Tripp, Lee Little, ME, Oct. 11

Associate Degree Program

- 1 Bushick, Eugene Francis, ET, Oct. 7
- 1 Chevitsky, John Joseph, ET, Oct. 4
- 1 Hess, Raymond Carl, ET, Oct. 11
- 1 Irvin, Joseph Charles, DDT, Oct. 11
- 1 Lewandowski, Donald Paul, ET, Oct. 12
- 1 Mulcahy, Richard Thomas, DDT, Oct. 11
- 1 Pettinato, James Francis, DDT, Oct. 11
- 1 Pontoriero, Ferdinand, ET, Oct. 11
- 1 Raab, David, David C., ET, Oct. 16
- 3 Schwab, Herbert B. Jr., ET, Oct. 11
- 1 Snyder, Doris L., DDT, Oct. 11
- 1 Stephenson, James Thomas, ET, Oct. 11
- 1 Stiber, Henry Robert, ET, Oct. 11
- 3 Wano, John J., ET, Oct. 15
- 1 Yurick, Robert Michael, DDT, Oct. 16

The following reasons were given for withdrawing: Personal, 37; Illness, 9; Financial, 6; Transferring, 1; Other 3.

Handball, Squash Courts May Be Reserved at Rec Hall

Reservations for the use of the handball and squash courts in Recreation Building may be made by telephoning Ext. 2087 during the following hours: Monday, Wednesday and Friday, 4 p.m. to 6:30 p.m.; Tuesday, Thursday, Saturday and Sunday, 1 p.m. to 6:30 p.m.

The reservations are granted on a one-hour basis. Courts will be held for ten minutes after the designated starting time, after which time the courts will be assigned to anyone waiting. Reservations will not be accepted more than 48 hours in advance.

Standard Time Returns

The University, along with the Borough of State College and other communities, will return to Eastern standard time on Sunday, October 27.

President Walker Cites Need For More Extension

The following is an excerpt from an address by President Eric A. Walker entitled "Extension Activities of Institutions of Higher Learning in Pennsylvania" given at the annual meeting of the Pennsylvania Association of Colleges and Universities on October 21 at Galen Hall, Pa. After reviewing the history of extension work generally in the nation and in Pennsylvania, Dr. Walker tells about the organization for extension work at the University, then continues with the following:

THE formal-instruction programs of the University, which are carried out either in one of the 14 centers located throughout the Commonwealth or through correspondence from the main campus at University Park, are characterized by the conventional academic routines such as systematic lesson assignments, examinations and prescribed class periods. They carry college credits, and most of them are designed for students at the undergraduate level, although a few are available for graduate instruction.

The informal-instruction programs, sometimes referred to as adult education, consists of noncredit clinics, field days, short courses, seminars, and the like aimed at specific instruction for a specific need that cannot be satisfied through conventional classroom tools and techniques. Informal instruction provides a mechanism for making available an educational process adapted to a particular time, place and situation.

Despite the fact that the students have paid virtually the entire costs of the general-extension program, the demand for extension services has always exceeded Penn State's ability to satisfy that demand. To provide a guide, then, to the establishment of programs, the Penn State Board of Trustees approved a policy for extension operations in 1953 that says, in part,

"In keeping with the obligations of the university, the program of extension instruction should provide maximum public service throughout the State, in such academic areas as

are within the professional competence of the faculty and staff. Reasonable diligence is expected in the development of new fields and methods of instruction, and in the promotion of effective cooperation between the University and other educational resources of the Commonwealth."

This policy does not preclude the possibility of co-operation with other educational institutions. In fact, the policy of the University has always been to avoid unnecessary and wasteful duplication of effort. The University, however, would be guilty of dereliction of duty if it should deny to the people of the Commonwealth the services it is charged with rendering unless it is clearly established that duplication does, in fact, exist and that the proper remedy for it is the curtailment of the Penn State program.

In the crisis we are facing in Pennsylvania higher education within just a few short years, it is eminently clear that all academic resources of the Commonwealth will be strained to the breaking point. It is equally clear that all our extension programs will have to be greatly expanded if we are to prevent the educational opportunity in Pennsylvania from shrinking in the years immediately before us. This is especially true of community centers such as Penn State now operates. Such schools will be vitally needed to keep alive the opportunity for collegiate instruction for thousands of Pennsylvania youth in the difficult days ahead.

The seriousness of the challenge facing higher education in the Commonwealth emphasizes the need for co-operation of the highest order among Pennsylvania's institutions of higher education. The question is not who is going to carry out extension work in what areas but rather how all our educational resources can be marshalled in closest co-operation to meet this tremendous challenge. I should like to reaffirm Penn State's willingness—even eagerness—to cooperate with its sister institutions of the Commonwealth in solving this vital problem.

Photographic Display Features Hungarians

More than 50 photographs of Hungarian refugees will be displayed beginning Sunday in the Hetzel Union Building to mark the first anniversary of the October-November, 1956, revolt against Communist Hungary.

Entitled "The Road to Freedom," the exhibit was prepared by James P. Blair, a Pittsburgh free lance photographer who took the pictures on a U. S. Information Agency assignment last year.

Blair spent a week near the famed bridge at Andau on the Austria-Hungary frontier assisting in refugee work

and snapping photographs of the Hungarians as they swarmed across the border into Austria rescue camps.

Later he obtained more photographs of the flight from Hungary while traveling with 1726 of the refugees being transported to the United States on the U.S.N.S. Marine Corp.

Blair will set up the display Saturday working with representatives of the School of Journalism and the School of the Arts, sponsors of the exhibit.

Formal opening of the two-week display and a reception for Blair will take place Sunday from 2 to 5 p.m. in the Hetzel Union Building.

Calendar

Friday, Oct. 25

College of Agriculture faculty meeting, 4:10 p.m., Room 109 Armsby Building.

Saturday, Oct. 26

Auction sale of surplus and used property, 10 a.m., Salvage Warehouse.

Cosmopolitan Club Halloween party at Sigma Alpha Mu, 9 p.m.

Sunday, Oct. 27

Protestant service, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Lawrence E. Dennis, vice-president for academic affairs.

Hillel Foundation television forum, 7:30 p.m. Omnibus program on "With Liberty For All". Dr. Frank Sorauf, faculty commentator.

Monday, Oct. 28

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Delbert Miller, professor of sociology, on "Community Power Structure."

Engineering Mechanics seminar, 4:10 p.m., 203 Engineering "A". John Frasier, on "A Problem in Stresses in Solids."

Tuesday, Oct. 29

Vesper service, Helen Eakin Eisenhower Chapel, 4:30 p.m. Hymn singing. Commentary on hymns by Dr. Luther H. Harshbarger, University chaplain.

Wednesday, Oct. 30

Lecture by Dr. Erwin Hexner, head of the legal division of the International Monetary Fund, 3 p.m., HUB auditorium, sponsored by Pi Gamma Mu and Economics Club, on "Facing the Future Common Market in Europe."

Computer Applications Seminar, 4:10 p.m., 209 Willard Building. Dr. Vladimir Vand, associate professor of physics, on "Solution of Crystallographic Problems on the IBM 704."

Forestry Convocation, 11 a.m., 121 Sparks Building. Dr. Henry A. Finch, professor of philosophy, on "Is Nature Cruel—A Problem in the Philosophy of Science."

Thursday, Oct. 31

Reformation Day vesper service, 4:30 p.m., Helen Eakin Eisenhower Chapel. The Rev. Preston N. William, assistant University chaplain, on "Our Heritage for Today."

Chemistry Colloquium, 1:10 p.m., 119 Osmond Laboratory. Dr. Ralph Livingston, Oak Ridge National Laboratory, on "Paramagnetic Resonance Studies of Free Radicals Stably Trapped in Solids at Low Temperatures."

Christian Science lecture, 7:30 p.m., Hetzel Union Building Auditorium, by Mrs. Claire Rauthe, C.S., of London, England, on "Christian Science: The Revelation of Scientific Spiritual Healing."

Friday, Nov. 1

Joint Chemistry-Physics Colloquium, 10 a.m., 119 Osmond. Dr. Ralph Livingston, Oak Ridge National Laboratory, on "Applications of Nuclear Quadrupole Spectroscopy to Chemistry."

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. K. E. Bullen, professor of applied mathematics, University of Sidney, New South Wales, Australia, on "Seismology and the Earth's Interior."

Home Ec Faculty Has Part In Graduate Day Program

Four members of the faculty of the College of Home Economics will take part in the program of the second Graduate Day sponsored by the Drexel Institute of Technology, Temple University, and Penn State on Nov. 9 in Philadelphia. Dr. William M. Smith is program chairman for the University. Dr. Katherine H. Fisher will participate in a symposium on the need for research; Dr. Dorothy Houghton will chair a symposium on students in graduate programs in which Miss Ruth Gates will participate.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Social Security Back Tax Bills To Be Received Soon

Many University faculty and staff members will, in the next few days, receive bills for the amount of back tax owed for Social Security coverage, Ossian R. MacKenzie, vice-president for business administration explained today.

The bills are being sent to deans and department heads to be distributed to the employees, along with information concerning payment of the bills.

MacKenzie explained further that not all employees owing back tax will receive a bill at this time but that they will eventually.

The employee is advised in the information that he has the privilege of paying his bill in one of two ways. He may pay a lump sum, by attaching a check for the amount to the enclosed form which is to be signed and returned.

He may also ask for deferred payment, in which case he will pay an amount each month for 16 months, including a charge for interest which amounts to one half of one per cent per month on the unpaid balance. The amount to be paid for the first month under this plan will be clearly indicated in the information the employee receives. Payments will begin in December and end in March, 1959.

Employees have been advised that all those who receive a bill at this time must make a choice of their method of payment by Nov. 15. If such a choice is not made by Nov. 15, the University is required to withhold the full amount of back tax from the December salary check.

The back tax is necessitated by the terms of agreement under which University employees are being given Social Security coverage. For many such employees, tax payments are retroactive to Jan. 1, 1956.

If the employee chooses the deferred payment plan and leaves University employment, the amount of unpaid

balance will be taken from the final salary check.

Employees who have already paid Social Security tax on earnings outside the University for the period covered in the back-tax period, are required to pay the amount indicated in the statement they will receive. They can recover the overpayment when their next income tax return is filed. For excess taxes paid on 1956 earnings, Form 843 of the Federal Government will be used. For refunds for overpayment in 1957, claim is to be made on the regular income tax report.

Employees have been advised to check the Social Security number as it appears on the forms they will receive. If no number appears on the form, they should enter it in the appropriate place.

An employee who expects to receive a bill for back tax and does not receive a bill in the next few days should check with his dean or department head.

Nominations Being Accepted For Distinguished Alumnus

Faculty and staff members are invited to nominate candidates for the University's Distinguished Alumnus Award.

Five alumni are chosen annually by the Board of Trustees at its meeting in January.

All nominations should be accompanied by a biographical sketch of the nominee, his address, and the specific basis for making the nomination.

Nominations should be made to the Secretary, Board of Trustees, 201 Old Main.

Senate Meets Nov. 7

The University Senate will meet on Thursday, Nov. 7, at 4:10 p.m. in the Assembly Room of the Hetzel Union Building.

Dr. Bloom Features AYI Program Today

Dr. Benjamin S. Bloom, University examiner of the University of Chicago, will lead a discussion on curriculum and evaluation as it relates to science as a feature of the Academic Year Institute colloquium on 3:10 p. m., in 131 Temporary Building, today.

The AYI for high school science teachers is sponsored by the National Science Foundation.

Dr. Bloom will not present a formal talk, so that faculty members who plan to attend are urged to give some thought to presenting specific questions and ideas.

At 5:30 p.m. a cafeteria style supper will be held in Dining Room "C" of the Hetzel Union building at which AYI students and faculty, and faculty of the College of Education, may meet and talk with Dr. Bloom.

Home Economics Awards Dinner Set For Nov. 6

Scholarships and awards will be presented to 41 students in the College of Home Economics at the annual Awards Dinner on Wednesday, Nov. 6, in the Hetzel Union Building. Sixteen donors or their representatives will make the awards.

The Student-Faculty Board of the College is sponsoring the dinner.

The Awards Dinner provides an opportunity for donors and recipients of the awards to become acquainted, Dr. Grace M. Henderson, dean of the College, explains.

Most of the recipients are selected by the College Scholarship Committee according to financial need, scholarship, and potential leadership ability, Dean Henderson adds.

The Borden Award of \$300 goes to the senior student in Home Economics with the highest all-University average for three previous years. The Pittsburgh Home Economics in Business group selects a freshman enrolled in a college in Pennsylvania to study home economics.

Calendar

Friday, Nov. 1

Academic Year Institute colloquium, 3:10 p.m., 131 Temporary Building, with Dr. Benjamin S. Bloom, University of Chicago examiner, in discussion on evaluation. Dinner meeting, 5:30 p.m., Hetzel Union Building.

Fluid mechanics Seminar, 4:10 p.m., Room 1, Sackett Building. Dr. Robert C. Dean, head of advanced engineering department, Ingersoll Rand Co., on "Some Fundamental Aspects of Flow in Centrifugal Turbomachinery."

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. K. E. Bullen, professor of applied mathematics, University of Sydney, New South Wales, on "Seismology and the Earth's Deep Interior."

Players Production of "Carnival of Thieves," Center Stage, 8 p.m.

Saturday, Nov. 2

Football, versus West Virginia, 1:30 p.m.

Soccer, versus Navy, 10 a.m.

Cross Country, varsity and freshman, versus Pittsburgh, 1 p.m.

Players Production of "Carnival of Thieves," Center Stage, 8 p.m.

Sunday, Nov. 3

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Eastern Orthodox Service of Worship, 10 a.m., Helen Eakin Eisenhower Chapel.

Chapel Service, 10:55 a.m., Schwab Auditorium. Ursula M. Niebuhr, associate professor of religion, Barnard College, New York.

Hillel Foundation Film Forum, 7:30 p.m. "Leonard Bernstein on Beethoven's Fifth Symphony." Dr. Hummel Fishburn, head of the department of music, faculty commentator.

Monday, Nov. 4

Engineering Mechanics seminar, 4:10 p.m., 203 Engineering "A". D. E. Hardenbergh, on "Interpolation by Divided Differences."

Faculty Luncheon Club, 12 noon, Dining Room "A", Hetzel Union Building. Mrs. M. W. Isenberg, vice-president, State College chapter of the League of Women Voters, on "The League of Women Voters Reassessment Project."

Student Artists' Series, Schwab Auditorium, 8 p.m., Hungarian Quartet.

Tuesday, Nov. 5

Vesper service, Helen Eakin Eisenhower Chapel, 4:30 p.m. Dr. Henry S. Brunner, head of the department of agricultural education, on "Consider the Lilies, How They Grow."

Wednesday, Nov. 6

Home Economics Awards Dinner, 6:30 p.m., Dining Rooms "A" and "B", Hetzel Union Building.

Computer Applications seminar, 4:10 p.m., 209 Willard Building. Peter Wegner, Computer Laboratory, on "A Program for Induction Motor Design."

Forestry Convocation, 11 a.m., 121 Sparks Building. Carl A. Vesper, forester, Pennsylvania Bureau of Correction.

Thursday, Nov. 7

Unitarian vesper service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Dr. D. H. Palmer, associate professor of fuel technology, in charge.

Organizational meeting of Young Engineering Teachers (American Society for Engineering Education), 7:30 p.m., 105 Mechanical Engineering. Lawrence Perez, on "Relationship of 'Yet' to the Teaching Profession."

Friday, Nov. 8

Players Production of "Carnival of Thieves," 8 p.m., Center Stage.

Language Exams Scheduled

The regular written Foreign Language Examinations will be held on Monday, November 4, at 7 p.m.; those in German in rooms 227 and 228 Sparks and those in French and Spanish in 316 Sparks.

The conflict examination in French or Spanish will be held on Tuesday, November 5, at 7 p.m. in 1 Sparks.

Dr. East To Head Department Of Home Economics Education

Dr. Marjorie East, home economics editor for high school text books at Houghton Mifflin Publishing Co., has been named professor and head of the department of home economics education, effective Feb. 1. She will succeed Dr. Jean D. Amberson, who is at Taiwan Normal University on the island of Formosa.

A graduate of San Jose State College, Dr. East obtained the degree of master of arts in curriculum and teaching and doctor of education in home economics education at Teachers College, Columbia University. She has taught in high schools in California, at Simmons College, and at Antioch College.

Economics Honorary Takes 24 Initiates In Ceremony

Twenty-four members of the faculty of the College of Business Administration were received into the newly organized chapter of the Order of Artus, honorary economics society last week. A dinner and installation ceremony was held at the Hetzel Union Building to honor the occasion.

Dr. Howard A. Cutler, head of the department of economics, delivered a talk on "What Is An Economist" as the principal address of the ceremony.

Initiates included: Dean Ossian R. MacKenzie, associate dean D. H. McKinley, and J. F. Bradley, F. A. Babione, F. H. Cook, A. F. Dombrowski, R. W. Kautz, G. K. Nelson.

C. J. Rowland, R. H. Waters, R. H. Wherry, C. E. Woodring, Jr., Doris Adams, L. E. Fouraker, W. M. Hench, J. J. Kaufman, V. E. Mares, W. E. Mason, Elton Rayack, A. H. Reede, O. W. Sauerlender, R. S. Stout, J. H. Vincent and L. L. Werboff.

Eleven faculty members already members of the Society received the initiates. Undergraduate students majoring in economics who meet the specified educational requirements will be admitted to the Society in June of each year.

Technical Bulletin Copy Wanted By Collection

A copy of Technical Bulletin 35 of the College of Engineering and Architecture, titled "1954 Proceedings, Research Conference for Smaller Industry," is urgently needed by the Penn State Collection.

Two copies of all University publications received by the Penn State Collection are bound for archival purposes, Mrs. Mary Mairs, curator of the Collection, points out.

Faculty and staff members are also urged to present copies of their published works, photographs, programs, original Christmas cards, and any other items appropriate to the Collection.

For information, call Ext. 524.

Items of Interest

Dr. John F. Corso, professor of psychology, has been awarded a grant of \$9,300 by the National Science Research Foundation to conduct a one-year study on the neural quantum theory of hearing. Dr. Corso has made earlier studies in the field under other grants by the Foundation.

* * *

Dr. Erwin W. Mueller, research professor of physics, presented one of the annual King lectures at the Johns Hopkins University last week.

* * *

Dr. Hans A. Panofsky, professor of meteorology, will discuss the research on atmospheric turbulence being carried out here before a Panel Problems on Turbulence Information of the Subcommittee on Meteorological Problems on Nov. 7.

* * *

Dr. Bruce M. Siegenthaler, associate professor of clinical speech is co-author of an article, "Additional Data on Bone Conduction When External Auditory Meatuses Are Occluded," appearing in the recent issue of 'Archives Otolaryngology.'

* * *

Dr. E. S. Lindstrom, associate professor of bacteriology, has received a one-year grant of \$6,000 from the National Science Foundation to conduct research in photosynthetic bacteria.

* * *

A grant of \$7,550 has been allocated by the Welding Research Council, New York, N. Y., for research in the design of pressure vessels. Dr. Joseph Marin, head of the department of engineering mechanics, will conduct the research with assistance of Frederick P. Rimrott and Dr. M. G. Sharma, instructors in engineering mechanics.

* * *

Dr. Joseph H. Britton, associate professor of child development and family relationships, presented a paper on "Personal and Social Adjustment of Rural Older Persons" at a meeting of the National Gerontological Society in Cleveland this week. The paper was written in cooperation with Dr. William G. Mather, head of the department of sociology.

* * *

Three members of the department of German faculty attended the meeting of the Central Pennsylvania Chapter of the American Association of Teachers of German at Bucknell University recently. Miss Helen Adolf, professor of German, spoke on "Richard Wagner und Ich"; Miss Nora Wittman, assistant professor, as secretary-treasurer, reported on "FLES Activities"; and Dr. Werner F. Striedieck, associate professor, presided as chairman of the chapter.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Guggenheim Paintings Here For Six-Month Exhibition

A collection of paintings from the Solomon R. Guggenheim Museum, New York, has been placed on exhibition at the Hetzel Union Building.

The paintings are on extended loan from the Guggenheim Foundation. The group is one of 16 which the Museum is lending to educational institutions in the United States.

The paintings, to be shown for six months, include works by Braque, Fein- ing, Kandinsky, Klee, Leger, Marc, Mo- holy-Nagy, Schwitters, and Xceron.

Student Creativity Panel Features AAUP Meeting

The problem of stimulating student creativity in classroom teaching will be analyzed by four faculty members at the meeting of the local chapter of the American Association of University Professors at 7:30 p.m., Monday, Nov. 11 in the Mineral Sciences Auditorium.

A panel discussion on the topic will be conducted by Dr. A. B. Sutherland, professor of English; Christine F. Sal- mon, associate professor of housing and home art and chairman of the division of home art; George S. Zoretich, associ- ate professor of art; and Dr. Walter H. Walters, associate professor of theatre arts. Dr. Sutherland will be chairman of the program.

The public is invited.

Assistant Chaplain Named

Charles E. Minneman, who has pre- viously served as student pastor at the St. Paul Evangelical Lutheran Church in Grosse Pointe Farms, Mich., and as co-director of the Lutheran Student As- sociation of Yale University, became as- sistant chaplain of the University on Nov. 1.

Graduate of Capital University, Col- umbus, Ohio, Minneman did his theo- logical work at the Evangelical Luth- eran Theological Seminary and received the degree of master of sacred theology from Yale University Divinity School.

Graduate School Lectures Bring Drs. Judd, Perkins

Dr. Dexter Perkins, eminent histor- ian, and the Honorable Walter H. Judd, Congressman from Minnesota, will speak on phases of U.S. foreign policy in lectures sponsored by the Graduate School next week.

Dr. Perkins, whose lecture is co-spon- sored by the College of the Liberal Arts, will be heard in Room 121, Sparks, on Tuesday, Nov. 12 at 8 p.m. on the sub- ject, "The Foreign Policy of the United States Today."

On Wednesday, Nov. 13, in Schwab Auditorium, Dr. Judd will speak on "A Reappraisal of Foreign Aid." This lec- ture is also at 8 p.m.

Dr. Jacob To Present Rufus Jones Lecture

Dr. Philip E. Jacob, professor of polit- ical science at the University of Penn- sylvania, will present the 10th annual Rufus Jones Lecture, sponsored by the State College Friends Meeting and the University Christian Association on Sunday, Nov. 10 at 8 p.m. in 121 Sparks Building.

"Changing Values in College" will be the subject of Dr. Jacob's lecture. It is taken from the book of the same title only recently published by Harper Brothers, and is a report of his investi- gation of students' sense of values.

Author of numerous articles on inter- national relations and the United Na- tions, Dr. Jacob holds degrees from Yale, Pennsylvania, and Princeton. He was associated with the work of the American Friends Service Committee for ten years.

Community Theatre Guild Presents One-Act Play

A one-act play, "Augustus Does His Bit," by George Bernard Shaw, will be given by the Community Theatre Guild at the Little Theatre, Old Main, at 8:30 p.m., Saturday, Nov. 9. There will be no admission charge.

Woman Of The Year Award Nominations Are Sought

Nominations are being received for a special award to be granted to an alum- na as "The Penn State Woman of the Year."

The award was established last year by the Board of Trustees to honor an alumna whose "personal life, profes- sional achievements, and community service exemplify the objectives of her Alma Mater." The first award is to be made in 1958.

The recipient of the award will be selected by the Trustees at their meet- ing in January. Faculty and staff mem- bers are invited to nominate a candi- date for the award, and they may do so by submitting the name and address of the person, a biographical sketch, and the specific basis for making the nom- ination. Communications should be ad- dressed to the Secretary, Board of Trustees, 201, Old Main.

Members of the Board of Trustees currently serving or current members of the University staff are not eligible for the award.

Max Shulman To Address Sigma Delta Chi Dinner

Max Shulman, author and humorist, will be the guest speaker at the 25th annual dinner of the Penn State chapter of Sigma Delta Chi, national journal- ism society, Sunday, Nov. 10, at 6 p.m. in the State College Hotel.

Shulman is author of seven novels, numerous magazine articles and movies, two Broadway plays, of a syndicated campus newspaper column.

IBM Gives Magnetic Drum For Use In Computer

A new magnetic drum valued at \$25,- 000 has been given by the International Business Machine Corporation for use in the digital computer, PENNSTAC. The drum is used for storing of infor- mation in the operation of the comput- er. It replaces a drum donated by IBM several years ago.

Calendar

Friday, Nov. 8

Players production of "Carnival of Thieves," 8 p.m., Center Stage.

Physics Colloquium, 4:10 p.m., 117, Osmond Lab. Dr. F. E. Hoare, University of Leeds, England, on "Some Properties of Transition Element Alloys."

Saturday, Nov. 9

Community Theatre Guild production of George Bernard Shaw play, "Augustus Does His Bit," 8:30 p.m., Little Theatre, Old Main. No admission charge.

Players production of "Carnival of Thieves," 8 p.m., Center Stage.

Sunday, Nov. 10

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service, 9 a.m., Helen Eakin Eisenhower Chapel.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther Harshbarger, University chaplain.

Rufus Jones Lecture, sponsored by the State College Friends Meeting and the University Christian Association, 8 p.m., Room 121, Sparks Building. Dr. Philip E. Jacob, professor of political science, University of Pennsylvania, on "Changing Values in College."

Hillel Foundation Film Forum, 7:30 p.m. "Ed Murrow Interviews J. Robert Oppenheimer," with Dr. Leonard F. Herzog, assistant professor of geophysics, as faculty commentator.

Monday, Nov. 11

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building.

Engineering Mechanics Seminar, 4:10 p.m., Room 203, Engineering "A". D. E. Hardenbergh, on continuation of problem "Interpolation by Divided Differences."

AAUP Meeting, 7:30 p.m., Mineral Sciences Auditorium. Panel discussion on developing creativity in students, with Dr. A. B. Sutherland, Christine F. Salmon, George S. Zoretich, and Dr. Walter H. Walters.

Tuesday, Nov. 12

Graduate School Lecture, 8 p.m., 121 Sparks Building, by Dr. Dexter Perkins, eminent historian, on "The Foreign Policy of the United States Today."

Vesper service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Dr. John E. Pixton, assistant professor of history, on "Figures of Wisdom."

Meteorology seminar, 4:10 p.m., Room 202, Willard Building. Lt. Col. Harold Powell, U.S. Air Force, on "Forecast Verification and Weather in Aircraft Accidents."

American Society for Metals meeting, 7:30 p.m., Mineral Sciences Auditorium. Dr. Joseph Sausville, chief of materials division, nuclear power department, Curtiss-Wright Corp., on "Material in Atomic Plants."

Wednesday, Nov. 13

Senate Courses of Study Committee meeting, 3:10 p.m., Room 229, Sparks Building.

Computer Applications Seminar, 4:10 p.m., Room 209, Willard Building. Erwin R. Schmerling, assistant professor of electrical engineering, on "Reduction of Ionospheric Data by Matrix Inversion."

Phi Sigma chapter meeting, 113 Frear Lab, 7:30 p.m.

Films Listed For Preview

Materials listed below have been requested. Please call Extension 2051 and give code number of those you would like to see; you will be notified when they arrive so that you can arrange a preview showing in Room 9, Library.

- N-1 Not Around the Block (automobile insurance)
- N-2 Planning Recreation Facilities
- N-3 Rural Recreation
- N-4 Farmer of Austria
- N-5 Color Lithography—An Art Medium
- N-6 Basic Violin Playing
- N-7 Date with Dizzy (satire on TV production)
- N-8 Compenius Organ in Denmark
- N-9 Collette
- N-10 Blunden Harbor
- N-11 Dams
- N-12 Working Water (irrigation)
- N-13 Saw Timber
- N-14 Tula to Tulum (archeology of Mexico)
- N-15 From Remote Past of Greece (archeology)
- N-16 Make Your Home Safe
- N-17 Goya

Thursday, Nov. 14

Meeting of faculty of the College of the Liberal Arts, 4:10 p.m., Room 121, Sparks Building.

Mathematics Colloquium, 3:10 p.m., Room 316 Sparks Building. Ralph T. Heimer, instructor in mathematics, on "The Mean Square Second Successive Difference."

Vesper Service, Helen Eakin Eisenhower Chapel, 4:30 p.m. Roman Catholic Mass.

Friday, Nov. 15

Players production of "Carnival of Thieves," 8 p.m., Center Stage.

Physics Colloquium, 4:10 p.m., 117 Osmond Lab. Dr. A. J. Salmon, Associated Electrical Industries, Limited, Berkshire, England, on "The Work of the Nuclear Physics Section, A.E.I. Laboratories."

AYI Colloquium, 3:10 p.m., 131, Temporary Building. Dr. Glenn O. Blough, College of Education, University of Maryland.

Meeting of the Central Pennsylvania section of the American Chemical Society, 7:30 p.m., 119, Osmond Lab. Dr. I. M. Kolthoff, professor of analytical chemistry, University of Minnesota, on "Induced Reactions."

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. D. R. Frankl, head of the electroluminescence section of the physics laboratory, Sylvania Electric Products, Inc., on "Electroluminescence of Zinc Sulfide Single Crystals."

Items of Interest

Dr. Joseph Marin, head of the department of engineering mechanics, was recently appointed a member of the Committee on Mechanical Properties of Materials of the Engineering Mechanics Division of the American Society of Civil Engineers.

Anthony S. Lucchek, head of the Labor Education Service, represented the University recently at a commemoration program for the 20th anniversary of the Industrial Relations Program of the Massachusetts Institute of Technology. He also participated in Rutgers University's "Labor Alumni Day."

Charles R. Marsh, associate professor of electrical engineering, conducted a fog demonstration recently for representatives of the Civil Aeronautics Administration, Auto Manufacturers Association, and the Night Vision and Motor Vehicle Engineering Committee of the Illuminating Engineering Society.

Mary Brown Allgood, associate professor of home equipment and chairman of the division of commercial consumer services, participated in the 11th National Home Laundry Conference this week in Washington, D.C.

Dr. Herbert Steiner, professor of German, spoke on "Talks With Three Poets" at the annual meeting of the Pennsylvania chapter of the Modern Language Association in Wilkes-Barre recently.

Dr. B. A. Whisler, head of the department of civil engineers, has been named to the Departmental Advisory Committee on Training for the Pennsylvania Department of Health.

Wesley P. Winter, assistant professor of industrial engineering, was a conferee appointed by the board of trustees of the American Society for Metals to the Second World Metallurgical Congress at Chicago this week. Winter has also been selected by the American Foundrymen's Society to serve on one of its educational committees.

Harold P. Zelko, professor of speech, spoke on "Effective Speaking" and conducted a clinic program at the recent national convention of the National Management Association in Pittsburgh, recently.

As retiring president of the Pennsylvania Historical Association, Dr. Philip S. Klein, professor of American history, delivered the presidential address at the recent meetings of the Association in Philadelphia. Dr. Robert K. Murray, associate professor of history, was succeeded as secretary of the Association by Dr. H. Trevor Colbourn, assistant professor of history.

Albert W. Christ-Janer, director of the School of the Arts, was the dinner speaker at the Midwest Arts Conference at Iowa City, Iowa, last week. The conference was attended by representatives from practically all midwestern colleges and universities.

Five members of the staff of the Ordnance Research Laboratory presented papers at the 15th U.S. Navy Symposium on Underwater Acoustics at Washington, D.C. recently. Dr. Eugen Skudrzyk, August F. Lehman, Wesley G. Houser, Robert B. Marcus, and Lawrence C. Pharo presented the papers. The paper by Lehman was co-authored by Joseph H. Eisenhuth, and that by Marcus was co-authored by Francis E. Kaprocki.

Amos E. Neyhart, administrative head of the Institute of Public Safety, was named chairman of the Driver Education Section of the Schools and Colleges Division of the National ty Council at the Council's Congress recently. Harry D. Fletcher was chosen member of the 1959 program committee and Joseph Intorre was on the nominating committee.

Courses of Study Committee To Meet

The Senate Committee on Courses of Study will hold its regular meeting on Wednesday, Nov. 13, at 3:10 p.m. in Room 229, Sparks Building.

Student Directories On Sale

Copies of the Student Directory, made available earlier this week to campus offices, are on sale at the office of the Recorder, in Willard Building, and at the Student Book Exchange in the Hetzel Union Building.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Tickets For Ballet Theatre Available, Thursday, Friday

Tickets for the Ballet Theatre program, sixth of the Artists' Series season, on Sunday, Nov. 24, will be available to faculty and staff members and other non-students on Thursday and Friday, Nov. 21 and 22, from 9 a.m. to noon and 1 to 5 p.m. at the HUB desk.

The program will be presented in Recreation Building at 8:30 p.m. Tickets will be \$1.

The Dancers of India will present their program tomorrow night at 8:30 p.m. in Schwab Auditorium.

Danforth Applications Now Being Accepted

Applications for Danforth Foundation fellowships are now being accepted for 1958 by Dr. Henry S. Brunner, head of the department of agricultural education, who is liaison officer at the University for the selection program.

The graduate fellows will be selected from among college seniors and recent graduates preparing themselves for a career of college teaching who will enter graduate school in September, 1958, for the first year of graduate study.

Candidates must be men of outstanding academic ability, personality congenial to the classroom, and integrity and character, including serious inquiry within the Christian tradition.

Applications, with recommendations, must be completed by Jan. 31, 1958.

Sabean Exhibits Sculpture, Watercolors In HUB Sunday

An exhibition of watercolors and sculpture by Samuel C. Sabean, associate professor of art at the University, will open Sunday, Nov. 17, in the gallery of the Hetzel Union Building.

A reception and tea for faculty, staff, students, and others interested will be held from 3 to 5 p.m. Sunday at the gallery to mark the opening.

Sabean's painting and sculpture have been exhibited extensively in the West and mid-West.

Pittsburgh Symphony Gives Concert Nov. 19

The Pittsburgh Symphony Orchestra, with William Steinberg conducting, will open the current series of concerts by the State College Concerts Association at 8:30 p.m. Tuesday, Nov. 19, in Schwab Auditorium.

Doors to the Auditorium will open at 8 p.m. and the concert will be open only to members of the Association and to 260 students who picked up tickets yesterday under an arrangement between the Association and the University Artists' Series.

Alumni Mementos Prove Popular

Two types of Penn State mementos currently being sold by the Alumni Association are proving extremely popular as gifts for many different occasions.

Miniatures of the Lion Shrine, at \$7.50, and Penn State chairs are receiving wide acceptance. The armchair, or general's chair, sells for \$27.50 and the smaller armless, or thumb-back chair, sells for \$16.00, subject to Pennsylvania sales tax.

The miniature lions may be purchased at the Alumni Office, 104 Old Main. The chairs may be ordered there.

Proceeds from the sales of these items are used by the Association to further its program of service to alumni and the University.

Dean Jackson Features Ag Forum Next Friday

Lyman E. Jackson, dean of the College of Agriculture, will speak on "New Concepts in Agriculture" at the first meeting of the College's Forum for 1957-58 on Friday, Nov. 22 at 4:10 p.m. in Room 109, Armsby Building.

The Forum Committee, consisting of Dr. H. R. Albrecht, Dr. D. R. McClay, and Dr. Alex Black, points out that the meeting will be concerned with the changes taking place in agriculture and how they will affect the College.

Dr. Patrick Granted Leave To Study Teacher Training

Dr. Robert B. Patrick, professor of education, has been granted a leave of absence from Feb. 1 to July 1, 1958, to visit schools in the southern, southwestern, and western parts of the United States to study work being done in teacher training programs. He will also visit secondary schools to gather material for a revision of the book, "Planning Student Activities," of which he is co-author, with Dr. Franklin A. Miller and Dr. James H. Moyer.

H. K. Wilson Returns To Position In Admissions

Dr. Harold K. Wilson, whose leave of absence of six months to complete work on two publications has ended, has returned to assume his new position as associate dean of admissions for research and development.

Director of the Division of Intermediate Registration for the past eight years, Dean Wilson is engaged in preparing a final report on the activities of the Division. In his new position, he will be concerned primarily with studies of the academic proficiency of students.

Library Hours Announced For Thanksgiving Recess

Ralph W. McComb, University Librarian, has announced that the Pattee Library will observe the following hours during the Thanksgiving recess: Wednesday, Nov. 27—7:50 a.m. to 5 p.m. Thursday, Nov. 28 — Closed all day. Friday, Nov. 29 — 9 a.m. to 5 p.m. Saturday, Nov. 30 — 9 a.m. to 5 p.m. Sunday, Dec. 1 — Closed all day.

SS Back Tax Due Today

Faculty and staff members who received bills for Social Security back taxes are reminded that today is the last day on which to return the white form which accompanied the bill in order to receive the benefit of paying the tax in installments over the next 16 months.

Senate Minutes

MINUTES OF THE MEETING OF NOVEMBER 7, 1957

The University Senate met at 4:10 p.m., on Thursday, November 7, 1957 in the Assembly Room of the HUB with President Eric A. Walker presiding. The minutes of the October meeting were approved as printed in the Faculty Bulletin for October 18, 1957. One hundred thirty-four senators signed the roll.

Communications From University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: G. W. Brindley (A. W. Taylor), E. L. Keller (T. S. Goas), Joseph Marin (J. W. Breneman), H. S. Brown (A. W. Wellington), R. E. Larson (R. P. Meahl), H. M. Davison (W. J. DeLacy), and R. W. Taft, Jr. (Thomas Wartik).

The following letter from Ben Euwema was read:

At its November 4 meeting, the Administrative Committee of the College of The Liberal Arts passed the following resolution and requested me to submit it to the secretary of the University Senate:

That the University Senate appoint a committee of the faculty to make itself available for advice and consultation by the Committee on Architecture and the Committee on Buildings and Grounds of the Board of Trustees, in regard to the planning, placing, design, and construction of buildings on the University campus.

The secretary announced that the special meeting of the Senate on Thursday, December 12 at 7:30 p.m. will be held in 121 Sparks Building to permit attendance by any faculty members in addition to those who are members of the Senate. It is always in order for nonmembers to attend Senate meetings but it is hoped that there will be a good attendance at this informational meeting on the University calendar.

New Senators

Lester P. Guest and Franklin A. Miller from the College of Education and Phyllis Griess from the College of Mineral Industries were elected for the remainder of the 1956-1958 term.

A letter from R. G. Bernreuter, Chairman of the Senate Committee on Committees reported that H. B. Charnbury had been appointed to replace P. L. Walker, Jr. on the Senate Committee on Research Policy.

Reports of Standing Committees

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix 'A' and moved its adoption. The motion was seconded and passed.

H. K. Schilling, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report which had been distributed at the meeting relative to "Proposed Recommendations Regarding Academic Military Affairs." He stated this was a tentative proposal and that the Committee hoped to bring in a final report near the end of the year. It is the intent of the Committee to recognize that military instruction should become of all-University concern. The faculty should be integrated into a faculty of a College, and that ROTC should be part of general education. Mr. Schilling asked for permission to distribute this report widely throughout the faculty. The Senate Committee on Educational Policy and the Senate Committee on Military Instruction will have joint discussions on this question. The complete report follows:

Committee on Educational Policy Report

Our Committee during the last two years has conferred with the Senate Committee on Military Affairs, has studied carefully several of its reports and memoranda, has conferred with the commanding officers of the three ROTC units on campus, and is now prepared to make recommendations for the consideration of the Senate.

Our recommendations are based on the following assumptions:

Assumptions

1. The Pennsylvania State University has legal obligations as a Land Grant Institution to offer military instruction and training designed to prepare officers for the armed forces.
2. While the University is not under legal mandate to require two years of ROTC work of all male students (with provision

for proper exemption), it should continue this requirement. Educational experience has shown that inadequate numbers of officers to meet national needs are prepared when the basic ROTC work is made optional; therefore it is in the interest of self preservation of our country to impose such a requirement.

3. There is a growing need for more widespread understanding among citizens of the problems and techniques of civilian defense in time of war, and for the training of competent leaders in this type of service.
4. The work of the first two years of ROTC is designed to develop understanding of the history, nature, problems and roles of warfare, as well as military service in both its personal and national aspects, and therefore the committee feels that ROTC contributes significantly to citizenship education, and thus to general education.
5. The citizenship education provided by instruction in military affairs and civilian defense is as necessary for women students as for men.

Recommendations

1. The above stated purposes could probably be achieved better, and with less duplication of effort and subject matter, if the introductory, basic two year programs of the several military services and a civilian defense program were combined and offered as a unit. It is recommended therefore that the University through its Senate, Administration and Board of Trustees (a) recommend to the proper governmental agencies the establishment of such an integrated basic two year ROTC and civilian defense program of instruction, (b) offer its personnel and facilities for cooperative study and educational experimentation in connection with the above recommendation.
2. The University Senate should go on record as favoring such basic military and civilian defense education for all male and female students, with certain types of exceptions.
3. Consideration should be given to reducing the amount of time devoted in the basic two year programs to drill with weapons.
4. The work of the various military and civilian defense units on campus should be coordinated by a civilian academic officer of the University.
5. There should be established a School of Military Affairs and Civilian Defense as an integral part of the College of The Liberal Arts, with the civilian coordinator as its director.
6. Careful study should be given to the values of more widespread exchange of military and civilian faculty personnel in the offering of courses related to military affairs and civilian defense.

Mr. Schilling announced that the Committee on Educational Policy was formulating a report on "Sabbatical Leave" to be presented to the Senate at a future meeting. This will be a proposal of policy.

J. A. Sauer, Chairman of the SENATE COMMITTEE ON RULES, presented the report which had been distributed at the meeting. The report which will lie on the table for one month is as follows:

The Senate Committee on Rules recommends that the following changes be made in the Constitution and By-Laws of the Senate:

Committee on Rules Report

The Senate Committee on Rules recommends that the following changes be made in the Constitution and By-Laws of the Senate:

1. Under Article I, Section 1—Membership Change "Vice-President" to "Vice-Presidents". Delete "the Provost". Change "the Director of Student Affairs" to "the Special Assistant to the President for Student Affairs". Change "eight representatives elected by ballot by each College and the Graduate School for a period of two years, four (4) being elected each year" to "nine representatives elected by ballot by each College and the Graduate School for a period of three years, three (3) being elected each year".

It is further recommended that these changes be made effective January 1, 1958, and each College and the Graduate School be requested to elect one additional senator and to designate from among its elected members which should be given the one, two and three year terms.

Article I, Section 2 of the By-Laws

Change "Provost" to "Vice-President for Academic Affairs". Add before the word "Dean", "College or Graduate School". This section as revised would now read "The President of the University shall

be Chairman of the University Senate. In his absence, the Vice-President for Academic Affairs shall act as chairman or, when the Vice-President for Academic Affairs is not available, the College or Graduate School Dean senior in order of appointment will serve as Chairman."

3. Under Article II, Section 1, Standing Committees

Delete section (n) (1) because of the non-existence of the body there referred to. Section (n) will now read—"In addition to the standing committees the Senate also maintains representation on the following University activity: Board of Student Publications, one representative.

4. Throughout the Pamphlet

Necessary editorial changes to accord with the changes made under Membership.

New Business

E. P. Nye, Chairman of the SENATE COMMITTEE ON STUDENT AFFAIRS, presented the report which had been distributed with the agenda as Appendix "B". This report of the Subcommittee on Academic Honesty contained the following recommendations:

Recommendation of the Senate Committee on Student Affairs

It is believed that only slight revision of the Senate Regulations for Undergraduate Students is necessary to permit adoption of Honor Systems of the type outlined in the Subcommittee report. Since proctoring by an honor system represents a clear departure in spirit from the faculty-proctoring system in use at present, it would seem appropriate for the Senate to acknowledge the acceptability of this method. Therefore, the following action is recommended.

1. That the University Senate signify its approval in principle of a formal honor system of the type outlined in this report by amendment of Rule O-3 to read as follows: "In order to protect the great majority of honest students from improper actions by a small minority who would otherwise be tempted to dishonesty, all examinations shall be adequately proctored. Wherever a formal honor system under the supervision of an Honor Council is in effect, this is considered to constitute "adequate proctoring". Any case of dishonesty . . ."
2. That upon approval of (1), above, by the University Senate, the Secretary of the Senate distribute copies of the subcommittee report to each member of the Student Council of the several colleges, to each member of the several teaching faculties, to each dormitory counselor, to officers of each sorority and fraternity and to the Daily Collegian.

Mr. Nye moved the adoption of the two recommendations. The motion was seconded. R. W. McComb moved that recommendation number 1 be amended by changing the second sentence to read:

A formal honor system under the supervision of an Honor Council is considered "adequate proctoring".

The motion on the amendment was seconded and passed.

D. H. McKinley moved that recommendation number 1 be further amended by changing the second sentence to read:

A formal honor system under the supervision of an Honor Council is considered an adequate substitute for proctoring.

The motion was seconded and lost. Mr. McKinley then moved that the second sentence of recommendation number 1 be amended to read:

A formal honor system under the supervision of an Honor Council will be acceptable in lieu of adequate proctoring.

This motion was seconded and lost. The motion to adopt recommendation number 1 as amended was passed. Rule O-3 of the Regulations for Undergraduate Students now reads:

In order to protect the great majority of honest students from improper actions by a small minority who would otherwise be tempted to dishonesty, all examinations shall be adequately proctored. A formal honor system under the supervision of an Honor Council is considered "adequate proctoring". Any case of dishonesty . . ."

R. G. Stoner spoke with reference to several items in the report. After discussion he moved that recommendation number 2 not be adopted at this time. The motion was seconded and passed. B. F. Howell, Chairman of the Subcommittee on Academic Honesty, was instructed to give further consideration to item 5 on page 8 of the report before action would be taken on recommendation number 2.

J. D. Ridge, for the Faculty of the College of Mineral Industries, presented the recommendation which had been distributed with the agenda as Appendix "C" and moved its

(Continued on page four)

Items of Interest

Dr. John R. Rackley, dean of the College of Education, delivered the keynote address at the opening session of the Central District Convention of the Pennsylvania State Education Association at Lock Haven yesterday, and also presented an address to a session on higher education. Dr. Franklin A. Miller, professor of education, served as chairman of a panel and Dr. Abram W. Vandermeer, associate dean, served on a panel. Dr. Paul Bixby and Dr. Donald G. McGarey also contributed to the meeting.

* * *

Dr. Ralph P. Seward, professor of chemistry, has received a grant of \$2,095 from the Atomic Energy Commission for research on the behavior of fused sodium hydroxide.

* * *

An article on "The Adolescence of Art Education" by Viktor Lowenfeld, head of the department of art education, appeared in a recent issue of the journal of the National Art Education Association.

* * *

Dr. Joseph F. Bradley, professor of finance, and Ralph H. Wherry, head of the department of commerce, are co-authors of "Personal and Family Finance", published recently by Rinehart and Co.

* * *

Christian K. Arnold, associate professor of engineering research and staff assistant to the President, presided at a workshop session at the national convention of the Society of Technical Writers and Editors this week.

* * *

Nora E. Wittman, assistant professor of German, was recently named to the Executive Council of the Pennsylvania State Modern Language Association for the coming three years.

* * *

Dr. Robert K. Murray, associate professor of history, and Dr. Warren W. Hassler, Jr., assistant professor, are authors of an article, "A Gettysburg Farmer Fights the Civil War," which appeared in a recent issue of a new journal, "Civil War History".

* * *

Dr. Miriam E. Lowenberg, professor of foods and nutrition, spoke on "The School Lunch—A Square Meal," at a recent meeting of the American School Food Service Association in St. Louis, Mo.

* * *

Dr. Tien-Hsi Cheng, Dr. Donald E. H. Frear, and Henry F. Enos, Jr., are authors of a paper on "The Use of Treatments Containing Methoxychlor Against Biting Flies on Cattle and the Determination of Methoxychlor Residues in Milk" which will be presented at the fifth annual meeting of the Entomologi-

cal Society of America next month at Memphis, Tenn. Dr. Cheng will also speak on "The Effect of Biting Fly Control on Beef Production."

* * *

G.M. Dusinberre, professor of mechanical engineering, has been appointed to a joint policy making committee of the American Society of Mechanical Engineers and the American Institute of Chemical Engineers. The committee is the Heat Transfer Conference Planning Committee.

* * *

Donald S. Pearson, associate professor of electrical engineering, is author of an article on "Temperature and Power Dissipation" appearing in the current issue of Design News.

Report from the Registrar

CHANGE OF NAMES

Anderson, John Robert from Anderson, Robert James
 Armstrong, Ruth Drake from Drake, F. Ruth
 Bast, Ruth Davis from Davis, Ruth Louise
 Beaver, Marjorie Lorraine from Spitzer, Marjorie Lorraine
 Berdanier, Carolyn Dawson, from Dawson, Carolyn Charlotte
 Boucher, Carole Sullivan from Sullivan, Carole Ann
 Briggs, Mary Muriel Katherine from Briggs, Muriel Katherine
 Campbell, Marianne Maier from Maier, Marianne Manon
 Chen, Olivia from Olivia, Chen
 Clark, Margaret Ann from Wimmer, Margaret Ann
 Colfax, John David from Kovacs, John David
 Cugini, Edna Ruth from Scottson, Edna Ruth
 Day, Suzanne Rie from Rie, Suzanne Harrington
 DeVore, Joanne Marilyn from Hughes, Joanne Marilyn
 Doyle, Elizabeth MacPherson from Hayes, Elizabeth MacPherson
 Eaton, Leona Buzash from Buzash, Leona
 Geraldine, Rita Farquhar, from Farquhar, Rita Elizabeth
 Goas, Sally, Rolston, from Rolston, Sally Lou
 Ibanez, Gail, Marie from Perry, Gail Marie
 Jameson, Sally B. from Beck, Sally Ann
 Kraybill, Nancy Wallace from Wallace, Nancy Ellen
 Harrison, Mary Mertz from Mertz, Mary Helen
 Herrick, Sarah Leada from Bringman, Sarah Leada
 Hitchcock, Donna Stone from Stone, Donna Marie
 Hudak, Charlotte Ludmilla from Staroscik, Charlotte Ludmilla
 Humphreys, Gloria I. from Irvin, Gloria D.
 Kitts, Joyce Wiggins from Wiggins, Joyce Dorothea
 Loetzbeier, Anne H. from Hughes, Anne Edith
 LoGiudice, Joanne Roberta from Krug, Joanne Roberta
 McKibben, Thelma C. from Giambattista, Thelma C.
 MacMannis, Barbara R. from Rochelle, Barbara Anne
 Mansfield, Patricia Endriss from Endriss, Patricia Lee
 Maybach, Karin DeJuhasz from DeJuhasz, Karin Marianna
 Mechlowitz, Olivia Eleanor from Johnson, Olivia Eleanor
 Mench, Helen Dolores from Mausteller, Helen Dolores
 Miller, Arlene Joyce from Zimmerman, Arlene Joyce
 Naylor, Kathryn Stover from Stover, Kathryn Grace
 Nelson, Patricia Jeanne from Hockenberry, Patricia Jeanne

Peifer, Marian Romberger from Romberger, Marian Elizabeth
 Percival, Jeannette Kennedy from Kennedy, Jeannette Saunders
 Pollack, Sonia B. from Blostein, Sonia Marie
 Pottios, Pamela King from King, Pamela Jane
 Remley, Margaret Ann from Shaw, Margaret Remley
 Rosica, Barbara Wolfe from Wolfe, Barbara Anne
 Schmerling, Esther Molly from Feldman, Esther Molly
 Smith, Rosemary Lee from Yohe, Rosemary Lee
 Smith, Yvonne Weber from Weber, Yvonne Lucille
 Stemple, Irene Shnurer from Shnurer, Irene M.
 Stelling, Garnet L. Cornell from Cornell, Garnet Lorraine
 Stuart, Karen Hensel from Hensel, Karen C.
 Supko, Evelyn Jane from Tippet, Evelyn Jane
 Thompson, Judith D. from Dombro, Judith Kay
 Timbers, III, Katharine Vyse from Vyse, Katharine Marie
 Williams, Nancy Jane from Byorick, Nancy Jane

WITHDRAWALS

(Campus)

Gr Bauchspies, David Allen, For, Oct. 18
 1 Beahan, Janet Marie, PhD, Oct. 9
 3 Eshleman, Richard Lee, Hort., Oct. 16
 2 Fazzalare, Frank A., BA, Oct. 23
 Sp Herr, David Orris, Oct. 10
 7 MacKenzie, Joan H., A&L, Sept. 21
 Gr Maguire, Edward A., Jr., Oct. 18
 1 Reidell, Charles W., PhD, Oct. 18
 5 Riotto, Dominio Joseph, ME, Oct. 19
 1 Roush, Charles F., Coun, Oct. 18
 3 Sharp, George Lawrence, Coun, Oct. 11
 1 Shirley, Donald L., Coun, Oct. 16
 Gr Suatoni, Joseph C., Chem, Oct. 21
 3 Bowman, John B., Coun, Oct. 25
 6 Burrows, Samuel D., ME, Oct. 22
 3 Cliff, Edward Albert, BA, Oct. 26
 5 Dunkle, Samuel James, G&M, Oct. 21
 Sp Marini, Virginia, Oct. 21
 6 Minsavage, Vincent Francis, ME, Oct. 18
 7 Musial, Bernard Matthew, BA, Oct. 17
 Gr Peiperl, Adam, Oct. 11
 5 Rapchak, John W., A&L, Sept. 27
 3 Squire, Willard S., Coun, Oct. 24
 Gr Wagner, Gerald Lee, Hist, Oct. 16
 1 Wartella, Michael J., ChE, Oct. 23
 Gr Welch, Conrad L., Oct. 4
 3 Bainbridge, Jack R., For, Oct. 29
 Gr Bertoli, Dolores Anita, Nov. 4
 3 Brown, Patricia Jean, SecEd, Oct. 29
 1 Bunting, Clifton Douglas, BA, Oct. 17
 3 Davis, Robert Franklin, ME, Oct. 30
 1 Dolaway, Ethel M., PM, Oct. 31
 Gr Ettinger, Edmond A., Oct. 17
 1 Frawley, Arthur James, ME, Oct. 29
 3 Grindall, Emerson Jon, CE, Oct. 31
 1 Hume, Delmar James, SecEd, Oct. 24
 3 Hutson, Charles Eugene, GM, Oct. 18
 Gr Irwin, James A. H., Oct. 21
 7 Jones, Joseph B., AroE, Oct. 31
 3 Jones, Thomas, EE, Oct. 28
 1 Martin, Hugh L. D., Sci, Oct. 23
 1 Mihalick, Joan M., HE, Oct. 26
 1 Miller, Victor L., Coun, Oct. 31
 5 Ormsby, Richard K., EE, Oct. 8
 Sp Palmer, Thomas M., BA, Oct. 30
 3 Rokosky, John Albert, AgBio, Oct. 29
 4 Rooney, Richard A., ChE, Oct. 28
 1 Schneek, Robert A., Metal, Nov. 1
 1 Sharp, William Arthur, BA, Oct. 1
 3 Stevens, Mary Ellen, AL, Oct. 23
 2 Stimac, Joseph Lawrence, EE, Oct. 30
 3 Taylor, Lynn Charles, Coun, Oct. 28
 5 Taylor, Nancy R., HoEc, Oct. 5
 1 Topscher, Robert Lewis, GenAg, Nov. 1
 3 Tully, Suzanne C., Coun, Oct. 29
 5 Yoffe, Donald Robert, BA, Oct. 28
 1 Zahorsky, Robert Michael, MI, Oct. 23

WITHDRAWALS

(University Centers)

Bachelor Degree Program

1 Blusiewicz, Edward Joseph Jr., CE, Oct. 14
 1 Campbell, Charles John, EE, Oct. 14
 1 Evans, Inez Joan, SecEd, Oct. 14
 1 For, Joan L., BA, Oct. 11
 1 Levine, William L., BA, Oct. 2
 1 Riordan, Henry John, BA, Oct. 9
 Associate Degree Program
 1 Heil, Thomas Stephen, P.T., Oct. 9
 1 Nicholas, Robert Eugene, P.T., Sept. 18
 1 Rulavage, Joseph E., ET, Sept. 17
 1 Stefanowicz, Louis J., ET, Oct. 4
 1 Williams, James Wilson, ET, Oct. 5

Guest's Studies In Brand Loyalty Suggest Attitudes Are Constant

TO what extent are our attitudes developed very early in life? How much of what we believe today is the same as that which we believed at six years of age? Do we *really* change much from adolescence to adulthood?

For many reasons answers to these and similar questions could be of great help—if we knew the answers. Unfortunately, getting at them is a long, and uncertain, project. It is of such interest to Dr. Lester P. Guest, professor of psychology, that he proposes to initiate such a project which may well take some of his time and energy for the rest of his life.

In 1940, Dr. Guest began a study which has some bearing on the general area of attitudes by surveying some 800 youngsters from 7 to 18 years of age on their loyalty to brand names of products in 15 different categories. The list included automobiles, magazines, tooth paste, soap, typewriters, coffee, watches, gum, radios and others.

Twelve years later, after much diligent searching, he was able to resurvey 165 (20 per cent) of those in the original study—and found a surprisingly large percentage of people who were still loyal to the brands of products which they said they “preferred” in the original study.

“Admittedly,” says Dr. Guest, “the sampling is small and there is no intention of anything more than suggestion that people are loyal to brand names over long periods of time.

“We feel, however, that the study gave us sufficient cause to think that other attitudes may also be effected early in life—attitudes, for example, about socio-economic problems.”

What, for example, is a person's attitude about military service early in life (obviously influenced by the parents) or about communism? Will that attitude be different when the subject is himself a parent?

“There is a wide range of attitudes we propose to study,” says Dr. Guest, “if we obtain the financial help we need.

“We plan to ask school children of

the Central Pennsylvania area in the grade schools and high schools about many of the presumably long-time social and economic problems, then periodically resurvey their attitudes over the years.

“It isn't difficult to imagine how useful such information might be.”

The original brand-name study began as a thesis project and in 1953, in the follow up, was aided by a grant from the Council on Research.

One of the interesting results of the survey is that a very high percentage of those expressing a preference for a certain brand in a certain area of products admitted to having used those brands when the follow up study was made. For example, 82 per cent (of those who returned the second questionnaire) indicated that they *had used* at one time the brand of gasoline which they said they preferred when they were asked the question in 1940. For soap, the percentage was 89, and for cereal, 84.

In reply to the question of present preference of brands in each of the categories, 33 per cent said they *preferred* gasoline they had said earlier was their choice. For soap, this percentage was 31, and for cereal it was 23. (In no case were they reminded of what their original preference was.)

Degree of loyalty, Dr. Guest points out, was apparently not a function of the age at which the original preference was stated. The initial survey covered youngsters just starting school as well as high school seniors.

“Some persons,” Dr. Guest concludes, “tend to have a general loyalty factor and others little. Also, persons have loyalty to some things and not to others.”

Attitudes on socio-economic questions, Dr. Guest realizes, may be much more complicated than those on brand names. He adds that everyone has an attitude, however, even if it is complete indifference. How these attitudes change, if they do, should make an interesting study.

There are implications for many fields in this study (such as sociology, journalism, family relationships) so it can be expected to have widespread interest.

Radio Astronomy Topic Of Engineering Meeting

John W. Findlay, who is in charge of the National Radio Astronomy Observatory, will address the joint meeting of the Institute of Radio Engineers, the American Institute of Electrical Engineers, and the Electrical Engineering Society on Tuesday, Nov. 26, at 7:15 p.m. in the Hetzel Union Building Auditorium. He will speak on “Radio Astronomy.”

Calendar

Friday, Nov. 15

Players production of “Carnival of Thieves,” 8 p.m., Center Stage.
Physics Colloquium, 4:10 p.m., 117 Osmond Lab., Dr. A. J. Salmon, Associated Electrical Industries Limited, Berkshire, England, on “The Work of the Nuclear Physics Section, A.E.I. Laboratories.”
AYI Colloquium, 3:10 p.m., 131 Temporary Building. Dr. Glenn O. Blough, College of Education, University of Maryland.
Meeting of the Central Pennsylvania section of the American Chemical Society, 7:30 p.m., 119 Osmond Lab. Dr. I. M. Kolthoff, professor of analytical chemistry, University of Minnesota, on “Induced Reactions.”
Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. D. R. Frankl, head of the electroluminescence section of the physics laboratory, Sylvania Electric Products, Inc., on “Electroluminescence of Zinc Sulfide Single Crystals.”
Fluid Mechanics Seminar, 4:10 p.m., Room 1, Sackett Bldg. Dr. A. W. Hussman, professor of engineering research, on “Pressure Waves in Multi-Cylinder Exhaust Manifolds.”
Lecture by Ray N. Envall, assistant manager, patent department, Westinghouse Electric Co., 4:10 p.m., 105 Sackett, on certain aspects of corporate patent policies and procedures as related to engineers.

Saturday, Nov. 16

Players production of “Carnival of Thieves,” 8:00 p.m., Center Stage.
Soccer, versus Pennsylvania, 2:30 p.m.
Artists' Series program by the Dancers of India, 8:30 p.m., Schwab Auditorium.

Sunday, Nov. 17

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.
Roman Catholic Mass, 9 a.m., Schwab Auditorium.
Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Rajah B. Manikam, Bishop of Tranquebar, India.

Monday, Nov. 18

Faculty Luncheon Club, 12 noon, dining room “A”, Hetzel Union Building. George S. Zoretich, associate professor of art, on “The Painter's Approach to His Work.”
Hillel Foundation Film Forum. “Drew Pearson Reports on the Holy Land.” Dr. John DeNovo, associate professor of American history, faculty commentator.
Engineering Mechanics Seminar, 4:10 p.m., 203 Engineering “A”. D. E. Hardenbeigh on “A Statistical Problem Using Pearson's System of Frequency Curves.”

Tuesday, Nov. 19

Economics Faculty Seminar, 12 noon, dining room “A”, Hetzel Union Building. Doris Adams, assistant professor of economics, on “Causes and Consequences of Rural to Urban Migration in Iraq.”
Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Music Ensemble.
Concert Association program by the Pittsburgh Symphony Orchestra, 8:30 p.m., Schwab Auditorium.
Physics Colloquium, 4:10 p.m., 117 Osmond Lab. Dr. Richard E. Berry, department of physics, Princeton University, on “Electron Spin Paramagnetism in Aluminum.”

Wednesday, Nov. 20

Computer Applications Seminar, 4:10 p.m., 209 Willard. Dr. Mary Lister, assistant professor of mathematics, on “Numerical Solutions of Laplace's Equation.”

Thursday, Nov. 21

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Lutheran Vespers.

Friday, Nov. 22

AYI Colloquium, 3:10 p.m., 131 Temporary. Dr. Paul E. Blackwood, Division of State and Local School Systems, U.S. Office of Education.
Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. A. L. Stuijts, chemical engineer, Technical University of Delft, Holland, and Philips Laboratories, Eindhoven, Holland, on “Preparation and Properties of Ferromagnetic Hexagonal Oxides.”
College of Agriculture Forum, 4:10 p.m., 109 Armsby Building. Dean Lyman E. Jackson will speak on “New Concepts in Agriculture.”

Senate Minutes—

(Continued from page two)

adoption. The motion was seconded. The recommendation is as follows:

The Faculty of the College of Mineral Industries desires, through its Senators, to move that the University Senate go on record as preferring, where names of Faculty members appear as teaching specific courses in the Graduate School Announcement and the Undergraduate Catalog, the use of an individual's initials before his name (without title) or of “Professor” for Faculty of professional rank rather than the current use of “Mr.”, “Mrs.”, or “Miss”.

After discussion the motion was lost. The next regular meeting of the Senate will be on December 5, 1957 at 4:10 p.m. in the Assembly Room of the HUB. The agenda will be distributed on November 21, 1957.

The meeting adjourned at 4:54 p.m.

C. O. Williams
Secretary

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

American Ballet Theatre Presents Program Sunday

The American Ballet Theatre, sixth program of the Artists' Series, will be presented Sunday, Nov. 24, in Recreation Building.

Tickets for non-students went on sale yesterday at the Hetzel Union Building desk and will continue today. They are priced at \$1.00.

All of the stars of the Theatre will appear in the program, including Nora Kaye, John Kriza, Erik Bruhn, Lupe Serrano, Villette Verdy, Scott Douglas, Ruth Ann Koesun, and Michael Lland.

UCA Plans Two European Seminars Next Summer

Two European Seminars will be conducted by the University Christian Association next summer, as it has in the past two years.

An Introduction to Europe Seminar, from July 9 to August 25, will emphasize political, educational, and religious patterns, and will include travel in England, France, Germany, Yugoslavia, Italy, Belgium and Holland. Dr. Howard Cutler, head of the department of economics and coordinator of General Education, will be the faculty leader of this seminar.

A Seminar on The Arts will emphasize historical and modern art and architecture. William Hajjar, professor of architecture, will lead this seminar from June 19 to July 31.

Both seminars will cost approximately \$975. The University Christian Association would appreciate having faculty members announce these seminars in their classes and send in names of interested students for further personal contact.

Drotar Succumbs

John Drotar, research assistant in mineral preparation engineering, and a 1956 graduate of the University, died following a highway accident last weekend. His research was concerned with fine coal cleaning.

Retirement Statements Will Be Made Next Year

University employees will not receive statements of their retirement accounts at this time, as they usually would, because of the change in accounting procedures by the State Employees' Retirement Board.

The Board will now close its books on Dec. 31 to coincide with practices of the Social Security accounting system. Previously, the Board's fiscal year coincided with that of the Commonwealth and books were closed on May 31.

"Under present plans, it is expected that employees will receive statements of their retirement accounts sometime in 1958," Ossian R. MacKenzie, vice-president for business administration, said in making the announcement of the change. "Statements will cover the period from June, 1956, through December, 1957."

Ice Skating Instruction Registration Tomorrow

Registration for group and individual instruction in ice skating at the University rink will be held tomorrow and on Nov. 30, at the rink.

Mrs. Marilyn Tammen, wife of James Tammen, assistant professor of plant pathology, will present the lessons, which will be given for adults on Monday evenings and for youngsters on Saturday morning. Group classes will be held for beginning skaters, intermediates, and advanced skaters.

The ice rink is scheduled to open Thanksgiving Day, weather permitting.

Mrs. Tammen is a former champion figure skater. She presented instruction to faculty and staff members and to students last year.

An exhibition of figure skating has also been scheduled for Saturday, Dec. 7, from 2 to 3 p.m., with a number of the best figure skaters of the State expected to be present.

The exhibition is sponsored by the ice skating section of the Penn State Outing Club. A clinic is also planned early next year.

Dr. Blackwood Leads AYI Colloquium Today

Dr. Paul E. Blackwood, specialist for elementary education in the Division of State and Local School Systems of the U.S. Office of Education, will lead the Academic Year Institute Colloquium today at 3:10 p.m. in Room 131, Temporary Building.

Dr. Blackwood's topic will be "Relationships Between Elementary and Secondary School Science Programs."

Maple Room Holiday Dinner Reservations Being Taken

Reservations are now being accepted for Christmas Holiday Dinners in the Maple Room at the Home Economics Building. The dinners will be served on the evenings of December 11 and 12. Only 65 reservations can be accepted each evening, so patrons are urged to make them as soon as possible. Call Ext. 2252.

Ag College Forum Today

Dean Lyman E. Jackson will speak before the College of Agriculture Forum this afternoon on "New Concepts in Agriculture." The Forum will be held at 4:10 p.m. in 109 Armsby Building.

\$7,000 Grant Aids In Food Consumption Study

Dr. Frederick Fliegel, assistant professor of rural sociology, is studying the varying patterns of food consumption among different population groups under a \$7,000 grant from the U.S. Dept. of Agriculture. He is being assisted by Mrs. Mildred Meyers, instructor in rural sociology, in a project which aims to supply information to be used to develop better marketing processes of foods.

There will be no *Faculty Bulletin* next week, Nov. 29, due to the Thanksgiving recess. The next issue will appear on December 6.

Aid To Students Takes Many Forms, Best Students Find Scholarships

FAR fewer well-qualified high school graduates fail to reach college for financial reasons than is generally supposed, in the opinion of George N. P. Leetch, coordinator of scholarships and loans.

"Scholarship aid now available in the nation's universities leaves few top flight students without some source of help," Leetch says. "There is great competition among colleges for the best student and understandably so. Every university would like to boast that the caliber of its students is the highest in the nation."

This competition, Leetch points out, leads to some misunderstanding on the part of students and their parents as to the real value of the scholarship aid. There is, for example, the college which entices students with an \$800 scholarship which turns out to be only \$400 in outright grant and \$400 which is a loan or is to be repaid by the student working in his spare hours. There is also the \$800 scholarship at expensive colleges which leaves the student a \$1,000 bill yet to be paid.

Penn State tells its applicants that the minimum cost should be considered as \$1,200 per year, not including travel, clothing, entertainment, and other similar expenses. They are also told that they should not expect to work in their freshman year. They are informed that there are many student aids, including scholarships and awards, loans, grants, and a number of other ways they may reduce the financial burden on their families. Here are a few facts about these student aids.

Scholarships and Awards

Every undergraduate at Penn State automatically has a \$700 scholarship, paid for by State appropriations. Over and above this scholarship is a program in which 20 per cent of the undergraduates are participating.

Most of these scholarships or awards are of limited monetary value, leaving a large share of the cost of education to the student and his parents. Second, there are not enough freshman scholarships. Third, many of the grants have specific restrictions which limit their general usefulness. Fourth, some of these scholarships are made available through donors directly, and are not awarded by the University.

At present, 33 scholarships valued at more than \$500 can be awarded, and 62 others are valued at from \$400 to \$500. The greatest number of scholarships and awards falls in the category of \$50 to \$150 per year, amounts insufficient to pay even tuition and fees.

The general distribution of these scholarships and awards by colleges is

unbalanced by the restrictions imposed by the donors. In only a few cases do these restrictions prevent the awarding of them. Six Food Fair scholarships of \$250 are given annually but this year the number was reached after several attempts to find worthy candidates who qualify otherwise.

Last year, of the 417 scholarships and awards granted, 75 were in the College of Agriculture, 54 in Mineral Industries, 30 in Engineering, and 27 in Home Economics. A total of 193 were granted unspecified in field.

In recent years the scholarship program has been aided materially by increased grants from industry and the program of Alumni Memorial Scholarships, of which there are 15 at \$350 each. Individual classes of the University have also established memorial scholarship funds. Several large funds from individuals have been established. The Ethel and Bayard D. Kunkle scholarship Fund was established in 1955, and last year six students were granted \$250 each. The John and Elizabeth Holmes Teas scholarships of \$1000 each were awarded to 9 students. This fund was established in 1952.

The total value of the more than 1800 scholarships granted by the University is \$310,000 for an average value of \$175. How much was made available to students by individuals and organizations who grant their aid independently of the University is unknown, but it is considered quite important.

The University is encouraging more grants from individuals and organizations to provide scholarships which have few restrictions. Some organizations desire to limit the recipients of their scholarships to sons or daughters of members of the organization. Others restrict to a special field. A great many, while appreciated fully, are for such small amounts that they constitute only a token aid to the student.

At the present time, a student, for very practical reasons, must have an average of 3.0 or above to earn a scholarship or award. This is true because there are many students who have such averages and also a real need. A third criterion considered in the awarding of scholarships is character.

"While it is important for the University to recognize scholarship, as such, by stressing attainment," says Leetch, "we have need also of grants-in-aid for other students who might not attain a very high average but whose activities, character, and need would indicate that a grant would serve a very useful purpose, to the student and to the University."

"A student who has had to work in part-time jobs, and has seen his average

decline because of this work, may be of more use to himself and to the country if he can eliminate his outside work and concentrate, free of financial worries, on his studies.

"On the other hand," Leetch continues, "we have too many needy students to build our scholarship program around 'full scholarships' which require no help whatsoever for any of the costs of education from the student or his parents."

The Loan Program

Last year, 64 students left the University reportedly because of finances, although the number may be somewhat higher in that some students list other reasons which may be complicated by financial concerns. (For example, money problems may contribute to poor scholarship.)

In the 1956-57 academic years, 849 students received loans of varying amounts, and for varying lengths of time. Of these, 576 were granted for six months or more.

As of June 30, a total of \$111,480.38 was out on loan, from about 40 different loan funds. Some of this money was in the form of short term loans which tide the student over emergencies. For example, students who depend on government checks sometimes do not receive the checks on the day expected. Others find that real emergencies exist in their families for short periods of time.

The 849 loans made last year, not including renewals, were largely for amounts between \$100 and \$175 (526 fell in this category). Among short-term loans, however, 130 were for less than \$100, probably indicating that sudden emergencies account for many financial problems.

The availability of loan money usually exceeds the demand, not entirely because the need does not exist. Some loan funds are not used in entirely because of certain restrictions in interest rate, limit in total value of the loan, or because of certain specialized requirements. One small fund, for example, is limited to students of one area of the State of a certain nationality group. Another is restricted to students in psychology.

It is extremely interesting to note that few loan applications are refused, yet the notes which have been written off in the past constitute less than one per cent of the total amount loaned.

The recent changes in University policies on loans now make it possible for an outstanding student to match the amount of his scholarship with a loan which he isn't required to repay until after graduation. Interest on these loans is 2 per cent in the first year after graduation, increasing to 6 per cent in the

third year. The total amount of loan a student may hold at one time has been increased from \$450 to \$1,000.

Student Employment

Through the Student Employment Office in Old Main, and through the student employment program in the College of Education and Athletics, many undergraduates, and a limited number of graduates, supplement their other income through part-time jobs which run from only a few hours per month to many hours.

Statistical information is difficult to evaluate in view of the fact that many students obtain part-time jobs at the beginning of their college careers and retain them for four years. Particularly is this true for students who work for their meals by waiting tables or dish-washing either on campus or in town.

Last year, the Student Employment Office received a total of 3,442 job requests (practically all of which were filled) in such categories as housework, baby sitting, garden and lawn work, manual labor, clerical, and technical fields, as well as many unclassified odd jobs. Student applications for jobs for the two semesters totalled 1,604, three-fourths of them from men students. There are times when the number of openings exceeds the supply of help, but this is a seasonal development. It is also influenced by the type of jobs available.

In the Athletic Association program, athletes and non-athletes alike earn money selling programs, and refreshments, cleaning up after athletic contests, setting pins in the bowling alleys, and a number of other small jobs. Last year, 466 students participated in this program, 309 of whom were non-athletes, with a total value of wages of \$34,000.

Undoubtedly many students consider this part-time work for "pocket money," rather than an important contribution to their basic needs, but for many others, this employment is an absolute necessity. There are relatively few jobs which contribute directly to the students education (as for, for example, jobs in laboratories in areas of their academic program).

Some students are represented twice in the above figures, and others are not included at all since their employment records do not go through the University, so that the total number of students "working their way through college" is unknown.

Graduate Student Aid

Percentage-wise, aid to graduate students is considerably above that to undergraduates. Of the full-time graduate students on campus this fall, only 183 are not receiving aid of one sort or another. (And of the 183, 45 are being aided by the program of Federal Government assistance under Public Law 550.)

All Colleges are represented among the 640 graduate assistants, of whom 527 are half-time, 67 quarter-time, and 46 three quarter-time. There are 128 graduate fellowships, 10 of which are granted by the Graduate School, generally in areas where other fellowships are not

available. A third source of aid is graduate scholarships, of which 40 are available, covering tuition and fees. These amount to \$175 for Pennsylvania students and \$375 for out-of-state students. Six of the 40 scholarships, for example, are unfilled this year because students to whom they were offered accepted reportedly financially better offers. Even graduate assistantships are difficult to fill in some areas.

Aids Outside The University

For many students direct aid comes from a variety of sources outside the University including the Federal, State, and municipal governments, religious, social and fraternal, and national organizations, and from corporations and businesses which make payments to students directly.

There are, for example, now 2300 students (undergraduates and graduates) at Penn State under Public Law 550, the "Veteran's Bill," which pays a considerable portion of the total expenses in going to college. Two other bills, P.L. 894 and 634, also provide substantial benefits to 55 students.

The Philadelphia Board of Education provides tuition and fees up to \$200 for outstanding students of that city. At present, 25 Penn State students are being aided by this program.

There are 1248 senatorial and gubernatorial scholarships which pay \$50 per semester.

Another source of aid is that of the R.O.T.C. programs. Navy regular students (50) get not only fees and books but also a subsistence allowance of \$50 per month for four years. In other programs in all three services, monthly subsistence allowances are provided for juniors and seniors.

The University's Needs

If, as indicated, only 64 students dropped out of the University for financial reasons last year, it would seem on the surface that Penn State's needs are relatively small, Leetch agrees.

What we don't know, of course, is how many high school graduates with good records, never consider Penn State. The University's policy of advising freshman applicants not to come here unless they can see their way through the first year is justified by the low number of dropouts for financial reasons, Leetch says.

Penn State's greatest need is for first-year aid of one sort or another for potentially top-flight students.

A second need is for grants-in-aid for the great many students who, for reasons not of their own doing, cannot attain the high grade point average necessary for scholarships. This would recognize that many students are of considerable value to society as college graduates though their scholarly attainments, as measured by grade point average, are not at the top.

A third need is for graduate assistantships and fellowships of such value that they will attract the best graduate students. The need is especially heavy in the humanities and social sciences, but it is also great in the technical fields.

Report from the Registrar

WITHDRAWALS (Campus)

- 1 Allen, James Franklin, Couns, Oct. 19
- 5 Barner, II, Stanley Cyrus, ME, Nov. 7
- 1 Beers, Charles Edward, IArt, Nov. 7
- 5 Bittinger, John R., Arch, Nov. 5
- 5 Breslin, John Archibald, Psy, Sept. 27
- 1 Burnside, George Dickson, 2yrAg, Nov. 1
- 3 Haas, John Lewis, G&G, Nov. 12
- 3 Hess, John Berley, A&L, Oct. 30
- 5 George, Daniel Horace, CE, Oct. 28
- 3 Hood, John L., Coun, Oct. 23
- 1 Irvin, Sidney Ronald, AgEd, Nov. 7
- 5 Jacox, Richard E., EE, Nov. 12
- 1 Laderman, Rochelle E., EIED, Oct. 18
- 6 Litterio, James, ME, Nov. 7
- 1 Long, Kenneth Dean, SecEd, Oct. 16
- Sp Marcus, Susan R., Oct. 30
- 1 Mattson, William Frank, ME, Oct. 30
- 5 Melnick, John Terry, ME, Nov. 6
- 1 Merrill, Grayson A., For, Nov. 1
- 5 Miller, Joel F., A&L, Oct. 17
- 7 Nicholas, Bruce O., ED, Nov. 4
- 3 Pancoe, Michael Vern, Cons, Nov. 12
- 1 Preg, Robert, IE, Oct. 18
- 3 Roberts, John Kenneth, Couns, Oct. 28
- Gr Roche, Martin A., Oct. 23
- 5 Rohrer, James A., Acctg, Nov. 9
- 1 Ryan, Robert Edward, BA, Nov. 4
- Gr Sampson, Agnes Gordon, Aug. 9
- 1 Shambach, John W., Coun, Nov. 8
- Gr Shea, James McQueen, ED, Oct. 4
- 1 Sitkin, Susan, EIED, Oct. 31
- 5 Smith, Beverly Ann, HEc, Nov. 1
- 5 Taylor, David Earl, DSc, Nov. 4
- 4 Weiner, Bruce L., BA, Oct. 29
- 1 Wheeler, John Vernon, AE, Nov. 1
- 3 Windish, Joan V., ArtEd, Nov. 7
- 1 Yarger, James F., Coun, Oct. 31
- 5 Zielaskowski, Casimire, CE, Nov. 7

(University Centers)

Bachelor Degree Program

- 3 Carney, James Aloysius, A&L, Oct. 11
- 2 Ketner, Clarence Robert, Jr., PM, Oct. 11
- Sp Maurey, Donald L., Oct. 8
- 1 Shank, Blair C., ME, Oct. 17
- 1 Yurkovich, Michael Thomas, BA, Oct. 16
- 5 Allen, Robert Winston, Aroe, Oct. 28
- 3 Edgerton, Janet Mitchell, Psy, Oct. 22
- 1 Singiser, Robert James, ME, Oct. 18
- 3 Snyder, Jean C., AL, Oct. 10
- 2 Hunter, Robert Lee, Coun, Oct. 31
- 2 Imber, Janet Harriet, Ed, Oct. 25
- 1 Kull, Richard A., ME, Oct. 31
- 2 Miller, Richard Conover, SecEd, Oct. 29
- 1 Orr, William Clyde, BA, Nov. 4
- 1 Schilling, William Henry, ME, Oct. 23

Associate Degree Program

- 1 Curry, Michael James, ET, Oct. 16
- 1 Herbst, Clyde Donald, DDT, Oct. 9
- 1 Hughes, Thomas William, DDT, Oct. 11
- 1 Gallagher, William Paul, ET, Oct. 14
- 1 Kresoski, Edward J., ET, Oct. 24
- 4 Lewis, William Thomas, ET, Oct. 15
- 1 Nestor, Michael, ET, Oct. 17
- 3 Nctartomas, Pasqual A., DDT, Oct. 22
- 1 Partilla, George Albert, ST, Oct. 10
- 1 Pysker, Asa M., Jr., ET, Oct. 31
- 1 Scapellato, Joseph George, ET, Oct. 14
- 1 Stull, Stanley H., ET, Oct. 16
- 1 Boehm, Stanley G., ET, Oct. 18
- 1 Corsa, Frank Lawrence, DDT, Oct. 17
- 1 Ondretack, Robert L., DDT, Oct. 15
- 1 Schrom, Daniel Lee, DDT, Oct. 4
- 1 Sekela, Peter Paul, DDT, Oct. 18
- 1 Taylor, Arthur Richard, ET, Oct. 18
- 1 Beynon, Charles Harry, DDT, Nov. 1
- 1 Cassel, Carl Franklin, ET, Oct. 25
- 3 Olmes, Charles W., DT, Oct. 21
- 1 Wean, George J., DDT, Oct. 23

Films Listed For Preview

- N-18 Transportation by Land
- N-19 The Age of Discovery
- N-20 The Adventures of *
- N-21 Machines That Help the Farmer
- N-22 How Living Things Change
- N-23 Earthquakes and Volcanoes
- N-24 Line
- N-25 Ceremonial Pipes
- N-26 Indian Musical Instruments
- N-27 Be Your Own Traffic Policeman
- N-28 Singing in the General Music Class
- N-29 Correlating Music with Social Science in the General Class
- N-30 Miracle of Moss
- N-31 Ferns
- N-32 The Fern
- N-33 Life Story of a Fern
- N-34 Swing Away
- N-35 Short Game of Golf
- N-36 Grip and Stance

Items of Interest

Samuel P. Bayard, associate professor of English composition, is author of an article in a book on folklore recently published by the Indiana University Press. The title of the article is "A Miscellany of Tune Notes."

Dr. R. Hadly Waters, professor of transportation, addressed the recent dinner meeting of the Central Pennsylvania Railroad Freight Agents.

Dr. Merritt A. Williamson, dean of the College of Engineering and Architecture, recently addressed the U.S. Naval Construction Battalion of Port Huene-me, Calif., on "Construction Cost Reduction through Creative Design and Engineering."

Charles R. Marsh, associate professor of electrical engineering, presented a paper on "Visual Effects of the Atmosphere," at a Vision Research Symposium sponsored by the Armed Forces-National Research Council Committee on Vision.

Lawrence Perez, professor of civil engineering and assistant dean of the College of Engineering and Architecture, last week addressed a dinner meeting of the Pennsylvania Society of Professional Engineers.

A grant of \$3,000 has been made by the U.S. Dept. of Agriculture to support research by Dr. James H. Copp, Jr., assistant professor of rural sociology, on the communication processes in a farmer cooperative.

A paper on "Product Differentiation and Straight Line Indifference Curves" will be presented by Dr. Lawrence E. Fouraker, professor of economics, at the annual meeting of the American Economic Association in Philadelphia next month.

Four mathematics logicians visited the campus this week from Princeton, N.J. Professors Alonzo Church, of Princeton University, and Paul Lorenzen, James Decker, and Lacombe, all of the Princeton Institute for Advanced Study came to talk with staff members. Lorenzen addressed the

Logic Seminar and Decker the Mathematics Colloquium yesterday.

Dr. Donald B. Swegan, assistant professor of physical education, and Hugh L. Thompson, instructor, are authors of an article, "Effects of Warm-Up in Swimming and Basketball," which appeared in the November issue of "Scholastic Coach."

Dr. H. B. Couch, assistant professor of plant pathology, presented a series of lectures yesterday on the "Nature and Control of Turf Diseases," to the William H. Mines Agricultural Research Institute at Chazy, N.Y.

Dr. Dorothy H. Veon, professor of business education, was elected national president of Delta Pi Epsilon, graduate honorary and professional organization for business education, at the national convention of the society recently.

Dr. Allan W. Taylor, assistant professor of ceramic technology, received a grant of \$9,000 from the National Science Foundation to support a research program on the "Influence of Wetting Agents on Clays."

HUB Cafeteria Features Candlelight Dinner Monday

The Thanksgiving Candlelight Dinner, at the Hetzel Union Building on Monday evening, Nov. 25, will feature roast turkey and pumpkin and mince pie. There will be appropriate decorations.

New Phone Numbers Listed

The Summer Sessions office is now located in Rooms 101 and 102, Willard Building. Phone numbers are now Extensions 2448 and 2449.

New phone numbers have also been assigned to the office of the director of the School of the Arts, Ext. 2496, and to the Artists' Series office, Ext. 2497.

HUB Hours Announced For Thanksgiving

The Hetzel Union Building will remain open from 8 a.m. to 8 p.m. during the Thanksgiving recess except on Thanksgiving Day, Nov. 28.

The Lion's Den will close at 1:15 p.m. on Wednesday, Nov. 27 and remain closed until 3 p.m., Sunday, Dec. 1.

The HUB cafeteria will maintain usual lunch and dinner schedules except on Thanksgiving Day.

Library Hours Announced For Thanksgiving Recess

Ralph W. McComb, University Librarian, has announced that the Pattee Library will observe the following hours during the Thanksgiving recess: Wednesday, Nov. 27—7:50 a.m. to 5 p.m. Thursday, Nov. 28—Closed all day. Friday, Nov. 29—9 a.m. to 12 noon. Saturday, Nov. 30—9 a.m. to 5 p.m. Sunday, Dec. 1—Closed all day.

Calendar

Friday, Nov. 22

AYI Colloquium, 3:10 p.m., 131 Temporary. Dr. Paul E. Blackwood, Division of State and Local School Systems, U.S. Office of Education.

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. A. L. Stuijts, chemical engineer, Technical University of Delft, Holland, and Philips Laboratories, Eindhoven, Holland, on "Preparation and Properties of Ferromagnetic Hexagonal Oxides."

College of Agriculture Forum, 4:10 p.m., 109 Armsby Building. Dean Lyman E. Jackson will speak on "New Concepts in Agriculture."

Ordinance Research Laboratory Colloquium, 4:10 p.m., Room 110, Electrical Engineering. M. T. Pigott, assistant professor of engineering research, on "A Study of Magnetism in Fe-Al Alloys via Electrical Resistance Measurements."

Fluid Mechanics Seminar, 4:10 p.m., Room 1, Sackett Building. Dr. R. L. Chuan, director, University of Southern California Engineering Center, on "Modern Wind Tunnel Techniques."

Saturday, Nov. 23

Cosmopolitan Club meeting, 8 p.m., Hillel Foundation. Dr. Frederick R. Matson, professor of archeology, will present "Tour of the Near East by Slides." Also dancing.

Players production of "Carnival of Thieves," 8 p.m., Center Stage.

Sunday, Nov. 24

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Rev. Preston Williams, assistant University chaplain, in charge.

Ballet Theatre program of the Artists' Series, 8:30 p.m., Recreation Building.

Monday, Nov. 25

Meeting of the American Statistical Society, 7:30 p.m., 208 Willard Hall. R. W. Kautz, associate professor of business statistics, and O. H. Sauerlender, lecturer in economics, on "Statistical Methods in Economics."

Faculty Luncheon Club, 12 noon, Dining Room "A", Hetzel Union Building. Dr. Maurice Mook, professor of anthropology, on "Anthropology of Thanksgiving."

Meeting of the faculty of the College of Physical Education and Athletics, 7 p.m., Room 241, Recreation Building.

Tuesday, Nov. 26

Vesper Service, Helen Eakin Eisenhower Chapel, 4:30 p.m., Dr. Margaret B. Matson, assistant professor of sociology, in charge.

J. C. Peters, manager, Patent Division, Leeds-Northrup Co., discusses patent policies and procedures, 4:10 p.m., 105 Sackett Building.

Monday, Dec. 2

Chemistry Colloquium, 1:10 p.m., 119 Osmond Laboratory. Dr. A. Letcher Jones, Chemical and Physical Research Division, Standard Oil Co. of Ohio, on "Thermal Diffusion Separation of Organic Liquid Mixtures."

Wednesday, Dec. 4

Forestry Convocation, 11 a.m., Room 121, Sparks Building. C. H. Stoltenberg, chief, division of forest economics, Northeastern Forest Experiment Station, Upper Darby, on "Forest Economics."

Thursday, Dec. 5

Cosmopolitan Club Japanese Dinner, 5:45 p.m., Friends Meeting House. Discussion on "Rearming Japan."

Friday, Dec. 6

Players production of "The Caine Mutiny Court Martial," 8 p.m., Center Stage. Opening night.

Renew Dairy Research Grant

The National Association of Artificial Breeders has renewed a grant of \$1,200 to support research at the Dairy Cattle Breeding Research Center. The studies are under the direction of Dr. John O. Almquist, in charge of the center, and Dr. Robert J. Flipse, associate professor of dairy science, and are concerned with the use of radioactive isotopes in research on the metabolism of bovine spermatozoa.

Statistical Society Meets

The State College chapter of the American Statistical Society will meet on Monday, Nov. 25 at 7:30 p.m. in Room 208, Willard Building.

R. W. Kautz, associate professor of business statistics, and O. H. Sauerlender, lecturer in economics will speak on "Statistical Methods in Economics." The meeting is open to all who are interested.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Special Senate Meeting Considers Calendar Matters

A special meeting of the Senate, open to all members of the faculty, will be held on Thursday, Dec. 12, at 7:30 p.m. in Room 121, Sparks Building.

The purposes of the meeting are to inform the faculty why a basic revision of the present University calendar is needed and to inform it of the advantages and disadvantages of the different calendar patterns which might be considered in place of the present calendar system.

Participants in the program will include President Eric A. Walker; F. M. Coombs, chairman of the Calendar Committee; C. S. Wyand, vice-president for development, on "Long Range Plans"; L. E. Dennis, vice-president for academic affairs, on "The Current Calendar Practice"; B. A. Whisler, head of the department of civil engineering, on "Physical Plant Utilization".

B. F. Howell, head of the department of geophysics and geochemistry, on "The Two Semester Plus Expanded Summer Session System"; F. W. Peikert, head of the department of agricultural engineering, on "The Quarter System"; D. H. McKinley, associate dean of the College of Business Administration, on "The Trimester System"; and Peter C. Fishburn, student representative, on "The Student's Viewpoint."

A discussion period will follow the main presentations.

Caine Mutiny Story Begins Tonight At Center Stage

The Penn State Players production of Herman Wouk's play, "The Caine Mutiny Court-Martial," begins this evening at 8 p.m. at Center Stage and continues every Friday and Saturday for three weekends, including Dec. 13 and 14 and January 10 and 11.

The production was designed and is staged by George Cavey, graduate student in theatre arts as part of the requirements of the master's degree.

Menotti's Amahl Feature Of Players Productions

The Penn State Players productions of "Amahl and the Night Visitors" and "The Apollo of Bellac" which opened last night in Schwab Auditorium continue tonight and tomorrow night at 8 p.m. The productions are in cooperation with the departments of art, music, and theatre arts.

Musical director for the production of the popular "Amahl and the Night Visitors," by Gian-Carlo Menotti, is Raymond H. Brown, assistant professor of music. Robert D. Reifsnider, associate professor of theatre arts, directs the other phases of the production. Settings were designed by Stuart H. Frost, instructor in art, and costumes by Russell G. Whaley, assistant professor of theatre arts.

The one-act fantasy, "The Apollo of Bellac," is by Jean Giraudoux, and is satirical and comic in relating of a young girl who finds that the best way to get around people is with flattery.

Tickets are priced at \$1.25 for tonight and tomorrow.

28th German Sing Scheduled For Schwab Friday, Dec. 13

The 28th annual Christmas Sing sponsored by the Department of German will be held next Friday, Dec. 13, at 7:30 p.m. in Schwab Auditorium.

The program will include special presentations of old German choral numbers by a class in music under the direction of Edwin H. Gamble, Jr., instructor in music; singing of three well-known German carols and a short illustrated talk by R. A. Boe, assistant professor of the history of art and architecture, on "Representation of the Nativity in German Art."

George J. Wurfl, professor emeritus of German, who established the program in 1930, will once again read the account of the Nativity.

Nancy Gullo will play numbers by Bach and Handel on the harp, and George E. Ceiga, University organist, will be at the organ.

NBC-TV Executive Heads Social Science Dinner

Dr. Thomas E. Coffin, director of research for the National Broadcasting Co. will address the annual dinner meeting of the Social Science Research Center next Friday night, Dec. 13 in the HUB ballroom.

Dr. Coffin, former professor of psychology at Hofstra College, will speak on an evaluation of mass media's impact on society. He is the author of "The Hofstra Study: TV Sales Effectiveness."

The dinner and the reception prior to the dinner are open to the faculty. Reservations may be made by calling Ext. 2408.

Pianist Entremont Presents Concert Next Wednesday

Philippe Entremont, the youthful French pianist, will present the second program of the concerts series by the State College Concerts Association at 8:30 p.m., Wednesday, Dec. 11.

Entremont, who began his career just five years ago at the age of 17, will appear with 12 symphonies during his current tour in this country, which includes 50 recital and orchestral engagements.

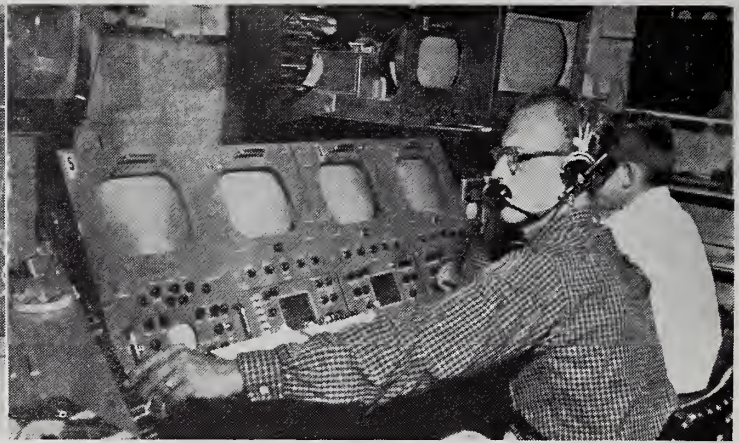
The program is open to members of the Association and 230 tickets will be available to students eligible for tickets to the Artists' Series, on Friday afternoon, Dec. 6, from 1 to 5 p.m.

Jazz Program Featured On Artists' Series

Wilbur de Paris, and his New, New Orleans Jazz will present the seventh program of the Artists' Series at 8:30 p.m., Sunday, Dec. 8, in Recreation Building.

Faculty members and other non-students may buy tickets at the Hetzel Union desk from 9 to noon and 1 to 5 p.m., Friday and Saturday, Dec. 6 and 7. The price is \$1.00.

Students picked up tickets earlier this week and if tickets remain, they will be available again to students from 1 to 5 p.m., Sunday, Dec. 8.



Ag Extension TV Shows Reach Many State Folks

THROUGH seven television stations in Pennsylvania and one in New York, Penn State's Agricultural Extension Service reaches thousands of families with timely and informative broadcasts about the farm, home, and garden.

And, more than incidentally, they also make a great many friends for the University.

With the exception of the northwest corner of the State, these television broadcasts blanket Pennsylvania, reaching to parts of all but four counties.

"We are not certain," says Elton Tait, associate professor of agricultural extension who is in charge of television and radio broadcasts, "how many families actually watch these broadcasts, but judging from responses to invitations to write in for bulletins and circulars or other information we supply, the broadcasts are accomplishing their mission."

The mission, Tait explains, is primarily to take at least the University's agricultural services to the people in as direct route as possible. Actually, few areas of the University's program are

not available through the telecasts since many faculty members not in agricultural work have been guests on the telecasts in 5-minute interviews conducted by William H. Folwell, assistant professor of agricultural information, who plans and edits programs for all eight stations and conducts the program on station WFBG, Altoona.

"Every day, for example," Folwell explains, "we have Dr. Charles L. Hosler on for a brief summary of the weather outlook. Others have appeared for special features, from time to time, and we have had visiting dignitaries as well."

By and large, however, the responsibility for the majority of the programs lies in the hands of Folwell, Alice Murray, associate professor of home economics extension, the various county agents and home economics representatives, and specialists in both areas.

Through weekday broadcasts over WFBG, Altoona, from 12:30 to 1 p.m., remote telecasts from the campus and from the station's studios reach into homes in 30 counties, including Juniata, Centre, Clinton, Clearfield, Blair,

Going over last-minute details before putting on Ag Extension TV shows over WFBG, Altoona, are home economist Ann O'Toole, William Folwell, who supervises the shows, and Dennis Sherk, one of two directors. In right photo, director Luther Kepler gives instructions to cameramen as he watches show on monitor.

Mifflin, Huntingdon, and Bedford. A daily telecast is also presented in Lebanon County by WLBR-TV, Lebanon. Other stations with varying schedules include WJAC, Johnstown; WBNF, Binghamton, N.Y.; WGAL, Lancaster; WCAU and WRCV, Philadelphia, and WQED, Pittsburgh.

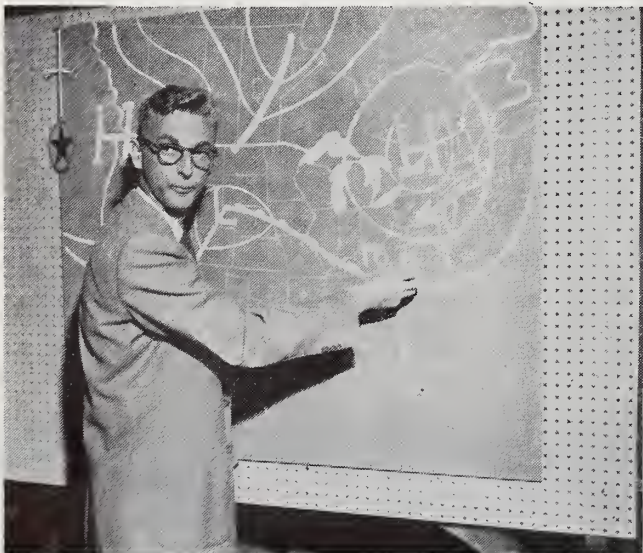
Last year, over 450 telecasts were made, and the total schedule each week now includes 5 hours and 45 minutes of programs.

In back of this tremendous amount of work is careful planning of the program content and of the technical details.

"Planning of the programs begins six months in advance," Folwell points out, "but it continues right up to broadcast time. Generally speaking, these telecasts are extra duties for most of the people involved. After a few experiences with it, however, they are enthusiastic about it."

The program of Nov. 20 over WFBG, Altoona, is a more or less typical example of format of the local telecasts. On that day, the program opened with a weather report by Richard Hallgren, substituting for Dr. Hosler. Next came a market report by Folwell, with information supplied by the Federal-State Market Reporters Service. Ann O'Toole, senior in Home Economics, provided some tips for planning the Thanksgiving dinner. Folwell interviewed a State College farm boy, Fred Strouse, who had won many honors in his 4-H Club work. Charles Forney, Centre County agricultural agent, then presented a discussion on barn ventilation, with equipment and charts to illustrate his talk.

The program moved swiftly and professionally, not only because the participants were well prepared but also because the technical phases were planned thoroughly. Luther Kepler, coordinator of television operations in the division of academic research and services, directed the show. Sometimes Dennis Sherk does the directing. With the director in the control room (Room 21,



One of regular features on show is weather report given by Dr. Charles Hosler.

Sparks), is Ed Vereb, chief television engineer. Managing the cameras were Walter Schwartz and Sandra Green-spun.

This program was planned, at least in general, last June. The planning then consisted of determining the type of program to be presented and that it would be the responsibility of Folwell and Forney to provide the main features. The market and weather reports were planned as regular features of the daily telecasts, coming from the campus. (Monday and Friday features of the show originate in the Altoona studios and are in the charge of the county agents of that area.)

Before the broadcast, Forney planned his presentation, borrowing equipment and having visual aids prepared. Many of these visual aids are made on campus by Herbert F. McFeely, professor of extension information, who has a small staff of artists at his command. Others are supplied by the Federal Government, or if they are photographs, by George Johnson, Mike Lynch, or Bob Beese, in the College of Agriculture. Folwell maintains a constantly-expanding file of visual materials which are available to all the programs and county agents.

For almost all the programs planned, Folwell has cue sheets, kits of materials including visual aids, and suggested tips. A regular t.v. tip sheet is sent to county agents and home economics representatives, providing them with aids for the improvement of their programs. Training meetings are held periodically, especially for new staff members to whom television is a new medium.

"None of the people are expected to be actors," Folwell points out, "and we don't encourage them to be. We suggest that they should think of their programs as though they are talking in person to someone. Generally they have had considerable experience in talking and demonstrating before groups. Naturally some do better than others before the camera, but all improve as they gain experience."

Good planning is emphasized in every program, because the participants are working within very close timelimits. Some aid is given to them through the director, who relays signals indicating how much time remains, but the general planning of the time schedule for a feature or interview rests with the participant. This is one phase of t.v. production which newcomers to the field find most disconcerting because few ever attempted to schedule a presentation within a few seconds time.

Production of WFBG campus shows take place in Room 20, Sparks Building, a room which would normally have no more than 30 students in it. Even with this limitation of space, however, a remarkably varied pattern of programs can be presented. Very occasionally the show has moved out onto the lawn beside Sparks Building. But to illustrate how intrepid are the producers and directors, the show once had a live cow in the "studio".

The cast begins assembling at 11 a.m., to set up the stages and to make last-minute adjustments. Often some minor changes are made right up to air time, and a certain confusion seems appropriate. But once the show has started, there is an air of professional skill present, although only Folwell and the technical staff have been specifically trained in television work.

Each program, the planners hope, has some item of interest for everyone, whether he is from the farm or the city. A surprising number of people who were never on a farm express appreciation for discussions or demonstrations intended for the farmer. "Fall Lawn Care," was the subject of an early broadcast this semester, as was "Dividing Perennials"—two topics of interest to both the farmer and the city dweller but more so to the latter. On the other hand, "Grooming Beef Cattle" has obviously primary interest to the farmer.

"There is not such a sharp dividing line between the farmer and the city dweller as there once was," Folwell points out. "Much of what interests one also interests the other."

As Folwell explains, there is no attempt to make these programs "educational television", as such. "They may be educational," he says, "and we hope they are in many respects. But there is no attempt made to more than merely scratch the surface and wet the appetite of the viewer."

"If we accomplish that, then maybe the person will take some action, such as asking the county agent or the home economics representative for more help, or by writing to the University."

"We are reaching some people never before reached by any other means."

Christmas Trees For Sale To Campus Departments

University departments may purchase fireproofed Christmas trees through the department of physical plant. Orders will be accepted until Dec. 13. The order should show the size of the tree desired and the time of delivery. An interdepartmental transfer form must be used in ordering.

The following prices apply: 3 to 4 ft. trees, \$2.25; 5 to 7 ft., \$3.50; 8 to 10 ft., \$4.00; 10 to 12 ft., \$5.00; and 12 to 15 ft., \$7.00.

Departments are cautioned that all trees used in campus buildings must be fireproofed. Fireproofing will be done by the department, for campus organizations only, between 1 p.m. and 3 p.m. on Dec. 6, 9, 11, 13, and 16 under the west stands at Beaver Field.

Blue Band Presents Concert

The Concert Blue Band, under the direction of James W. Dunlop, professor of music education, will present a program at 8 p.m. tonight in the Forum of Education Building in Harrisburg as part of the meeting of the Pennsylvania Music Educators Association.

Report from the Registrar

WITHDRAWALS (Campus)

- 5 Baringer, George Edward, BA, Oct. 12
- 4 Bennett, Harry Spaulding, Cons., Nov. 18
- 3 Brickman, Robert Morris, Coun, Nov. 15
- 5 Chesworth, Edward Thomas, Meteol, Nov. 15
- 1 Garnet, Paul R., Chem, Nov. 9
- 3 Heller, Judith Ann, Arts, Nov. 8
- Gr Hirko, Betta S., Nov. 5
- 3 John S. Michael, FT, Nov. 11
- 3 Jones, Kenneth A., ME, Oct. 30
- 1 Keane, John Francis, BA, Nov. 13
- 3 Lea, Donna M., Hart, Nov. 8
- 7 Leibig, John Justin, A&L, Nov. 4
- 5 McIntosh, Kenneth H., EE, Nov. 8
- 3 Miller, Elizabeth Hewitt, EIED, Nov. 8
- 5 Motson, Barbara A., Coun, Nov. 12
- 3 Rade, Stephen, BA, Oct. 23
- 5 Rosini, Charles Anthony, PhEd, Oct. 30
- 6 Alperin, Robert E., CE, Oct. 30
- 1 Baer, Ronald W., Coun, Nov. 14
- 1 Camoni, Paul J., PhEd, Oct. 19
- 2 Ford, Marion Richard, A&L, Nov. 18
- Gr Hancox, Dean Arthur, Nov. 4
- 5 Kniss, Robert S., PhEd, Nov. 7
- 1 Lauer, Kathleen Marion, Coun, Oct. 22
- 1 McClurkin, Richard T., ED, Oct. 22
- 1 Smith, Richard Garry, MusEd, Oct. 28
- 1 Spangler, Timothy Jackson, PhEd, Nov. 5

WITHDRAWALS (University Centers)

Bachelor Degree Program

- 1 Aaronson, Tillie Toby, A&L, Oct. 18
- 1 Alexander, Sandra Durelle, MedT, Nov. 8
- 1 DeBalo, Joan M., MedT, Nov. 11
- 1 Forlin, Peter E., IE, Oct. 10
- 1 Glatz, John Edmund, A&L, Nov. 4
- 1 Hamelin, Carol Mae, MedT, Nov. 1
- 1 Hileman, Merrill Harrison, BA, Nov. 11
- 2 Klein, Alan Henry, ME, Nov. 2
- 3 Kopetsky, Leonard Carl, BA, Oct. 31
- 3 McGeehan, Irene Mary, Cons, Nov. 5
- 1 Mrozinski, Avis May, MedT, Nov. 1
- 1 Patchell, Robert Arthur, Phys, Nov. 8
- 1 Roy, Margaret Ritz, SecEd, Nov. 1
- 1 Senat, Julian Earl, EE, Oct. 30
- 1 Spanbauer, Charles Joseph, SecEd, Oct. 31
- 2 Strelakos, George John, AL, Nov. 1
- 1 Wasilewski, Joseph Michael, CE, Nov. 8
- 1 Wolfel, Raymond Joseph, ME, Oct. 29
- 3 Wiener, Richard, EE, Nov. 15

Associate Degree Program

- 1 Bersavage, George Joseph, ET, Nov. 1
- 1 Bornak, Michael Patrick, ET, Oct. 16
- 1 Cara, Patrick Anthony, ET, Nov. 8
- 1 Cuneo, James Thomas, ET, Nov. 5
- 1 Hummel, Ira Rodell, ET, Oct. 25
- 1 Janus, Ronald John, ET, Oct. 14
- 1 Keller, John Joseph, ET, Nov. 12
- 1 Larue, Kenneth E., ET, Oct. 24
- 1 Miller, Harold Louis, ET, Sept. 18
- 1 Miller, William Robert, ET, Nov. 11
- 1 Osmanski, Stanley John, ET, Nov. 4
- 1 Rhoea, Edward Joseph, ET, Nov. 11
- 1 Robey, Leonard Paul, ET, Nov. 8
- 1 Romberger, Lynn Lamar, ET, Oct. 31
- 1 Schaeffer, Carl Francis, ET, Oct. 4
- 3 Stump, Donald Roy, DDT, Nov. 6
- 1 Wadel, Lester M., Jr., DDT, Nov. 15
- 1 Bussolon, Guido John, ET, Oct. 17
- 1 Trout, Delmar E., ET, Nov. 8
- 1 Veit, Kenneth Bergantz, ET, Nov. 16

\$200,000 Check Presented To Finance Calculator

The Pennsylvania Electric Association, Westinghouse Electric Corp., and the Elliot Co. presented a check for \$200,000 to the University to finance the construction of an alternating current network calculator recently.

The calculator, part of the overall computer facility, has been in operation since September for undergraduate and graduate electrical engineering courses and for research work. It is used to solve complex problems in electrical power systems, electrical networks, oil, gas and water pipelines, and many mechanical engineering and aerodynamics problems.

Items of Interest

Dr. Monroe Newman, associate professor of economics, is author of a paper on "Issues in Temporary Disability Insurance" appearing in the fall issue of the Journal of Insurance. The paper was originally presented at the annual meeting of the American Association of University Teachers of Insurance.

A series of talks on various aspects of the Railway Labor Act was presented by Dr. J. J. Kaufman, associate professor of economics at the New York State School of Industrial and Labor Relations, Cornell University.

R. Rupert Kountz, professor of sanitary engineering, addressed the Karthaus Lions Club recently on "The Formation and Operation of Public Service Authorities."

Benjamin W. Niebel, head of the department of industrial engineering, discussed "Operation Planning and the Work Station Layout" at the annual Plant Layout Technical Workshop in Pittsburgh recently.

Gilbert L. Crossley, assistant professor of electrical engineering, has been re-elected as the director, Atlantic Division of the American Radio Relay League.

Dr. Donald P. Satchell, assistant professor of soil technology, is in charge of a research project aimed at reducing the losses of nitrogen from the soil. The project is aided, in part, by a \$2,500 grant from the American Cyanamid Co.

Dr. L. W. Hu, associate professor of engineering mechanics, has received a \$3,000 grant from the DuPont Co. to aid in a study of the plasticity theory as related to high polymers.

Dr. Erwin W. Mueller, research professor of physics, has been named scientific member-at-large of the Fritz-Haber Institute of the Max Plank Gesellschaft, Berlin, Germany.

Ralph H. Wherry, professor and head of the department of commerce, is the guest of the Pennsylvania Manufacturers' Association at the 62nd Congress of American Industry now in progress in New York.

Dr. B. J. Kochanowsky, associate professor of mining engineering, spent the past summer continuing his research work on blasting, in Germany.

O. Edward Pollock, Jr., assistant to the dean of men, recently addressed the National Interfraternity Conference meetings at Colorado Springs, Colo.

Dr. Havighurst Addresses AYI Meeting Today In HUB

Dr. Robert J. Havighurst, of the Committee on Human Development at the University of Chicago, will address the Academic Year Institute at 3:10 p.m. today in the assembly room of the Hetzel Union Building, on the subject: "Supplying Information about Human Development for the Teaching of Science."

Recently returned from Brazil, where he served as a UNESCO appointee as co-director of the Brazilian Government Center for Educational Research, Dr. Havighurst is the author of a number of books on education, including "Who Shall Be Educated?" and "Father of the Man."

Dr. Ralph W. Tyler, director of the Center for Advanced Study in the Behavioral Sciences, Stanford University, will be the speaker next Friday, Dec. 13.

Christmas Services Scheduled In Schwab

The annual Candlelight Service for the Christmas season will be held on Saturday night, Dec. 14, at 10:55 p.m. in Schwab Auditorium and the Christmas Chapel Service on Sunday, Dec. 15, at 10:55 a.m., also in Schwab Auditorium.

The Candlelight Service will include four lessons and appropriate anthems sung by the Chapel Choir under the direction of Willa C. Taylor. George Ceiga, University organist, will play for the service.

The Chapel Service will include selections from the Candlelight Service. Chaplain Luther H. Harshbarger will give the Christmas meditation.

Doors will open one-half hour before each service.

Film To Be Shown Monday

The film, "Richard II" will be shown for faculty members and students only on Monday, Dec. 9, at 7:30 p.m. in Room 119, Osmond. Doors will open at 7:15 p.m. The film showing is sponsored by the department of English and there is no charge.

The film is a kinescope recording of the NBC-TV broadcast of several years ago, starring Maurice Evans and Sarah Churchill.

Christmas Vacation Hours Are Listed

The University Calendar for Christmas vacation, correct as shown in the Faculty Directory, is as follows:

Saturday, Dec. 21 — Vacation begins, 11:50 a.m.

Friday, Jan. 3 — Vacation ends, 8 a.m.

The date for the termination of vacation shown in the University Catalogue is incorrect.

Calendar

Friday, Dec. 6

Meeting of the College of Agriculture, 4:10 p.m., Room 109, Armsby Building.

Social Science Research Center dinner meeting, 6 p.m., Hetzel Union Building. Dr. Thomas E. Coffin, director of research, NBC-TV, featured speaker.

Players production of "Amahl and the Night Visitors" and "The Apollo of Bellac", 8 p.m., Schwab Auditorium.

Players production of "The Caine Mutiny Story," 8 p.m., Center Stage.

AYI Colloquium, 3:10 p.m., assembly room, Hetzel Union Building. Dr. Robert J. Havighurst, Committee on Human Development, University of Chicago, speaker.

Sunday, Dec. 8

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Worship Service, 9 a.m., Helen Eakin Eisenhower Chapel.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther Harshbarger, University Chaplain, the speaker.

Eastern Orthodox Service of Worship, 10 a.m., Helen Eakin Eisenhower Chapel.

Jazz Concert by Wilbur de Paris and His New, New Orleans Jazz, 8:30 p.m., Recreation Building.

Hillel Foundation Film Forum Series, 7:30 p.m. Kinescope film "Segregation and the South" with Dr. Michael Chiapetta, associate professor of education, as faculty commentator.

Monday, Dec. 9

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Louis Dupree, associate professor of anthropology, on "Afghanistan."

Engineering Mechanics Seminar, 4:10 p.m., 203 Engineering "A". Okan Gurel, graduate assistant in engineering mechanics, on "Numerical Solution of the Differential Equations of a Spherical Shell by Use of Alwac III-E Electronic Digital Computer."

Showing of film, "Richard II", sponsored by the department of English, 7:30 p.m., 119 Osmond Lab. Open only to faculty and students. Doors open at 7:15 p.m.

Tuesday, Dec. 10

Meeting of American Society for Metals, 7:30 p.m., Mineral Sciences Auditorium. Theodore P. Pajak, consulting engineer, on "Metal Sandwich Materials and Structures."

Meeting of Young Engineering Teachers of the American Society for Engineering Education, 7:30 p.m., 105 Mechanical Building. Christian K. Arnold, staff assistant to the president, on "Writing in Engineering Education."

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Mrs. Helen E. Buchanan, instructor in family relations, in charge.

Wednesday, Dec. 11

Concert by Philippe Entremont, French pianist, 8:30 p.m., Schwab Auditorium.

Computer Applications Seminar, 4:10 p.m., 209 Willard Building. Peter Wegner, research assistant in engineering research, on "PENN-CODE—A Floating Point Interpretive Routine."

Thursday, Dec. 12

Special Senate Meeting, 7:30 p.m., Room 121, Sparks.

Meeting of the American Society for Engineering Education, 4:10 p.m., 105 Mechanical Engineering Building. Dr. Howard A. Cutler, coordinator of the General Education program, on "General Education for Engineers."

College of Home Economics faculty meeting, 4:10 p.m., 14, Home Economics Building. L. E. Dennis, vice-president for academic affairs, the speaker.

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Christmas Choral Program, The Meditation Chapel Choir, Willa C. Taylor, director.

Friday, Dec. 13

Academic Year Institute Colloquium, 3:10 p.m., Dr. Ralph W. Tyler, director of the Center for Advanced Study in the Behavioral Sciences, Stanford University.

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. A. L. Rodgers, associate professor of geography, on "Eastward Movement in the USSR."

Players production of "The Caine Mutiny Story," 8 p.m., Center Stage.

28th annual German Sing, 7:30 p.m., Schwab Auditorium.

College of Agriculture Forum, 4:10 p.m., 109 Armsby Building. Speaker, Dr. B. T. Shaw, administrator, Agricultural Research Service, U.S.D.A.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Changes In Title Approved

The Executive Committee of the Board of Trustees approved five changes in title for faculty members at its meeting last week:

Dr. William M. Hench, professor of international trade, and Dr. Randall S. Stout, professor of public finance, were named professors of economics; Julius J. DeCarolis, associate professor of engineering research, was named associate professor of mechanical engineering; and Wolfgang E. Meyer, professor of engineering research, was named professor of mechanical engineering. All these changes were effective Dec. 6.

Dr. Frank R. Hartman, research assistant, was named research associate, Division of Academic Research and Service, effective Oct. 1.

Three Small Structures Approved For Ag Hill

A beef cattle barn, a bull barn, and a small workroom building in relation to poultry husbandry research were approved by the Board of Trustees last Friday.

The beef barn, 104 ft. by 30 ft., will be built near the Farm Service Center. The bull barn, 100 ft. by 32 ft., to provide safe housing for herd sires, will be constructed near the Dairy Barn Center. The workroom for poultry research will be built near the present solar poultry house to provide an area for studies in the production of quality eggs and for housing special instruments.

Mann Named To Rare Books Post

Charles W. Mann, Jr., bibliographical searcher at the Pattee Library, has been named rare books and manuscript assistant. He will continue to devote half time to his former position and will also be responsible for the organization and care of the growing collection of rare books. With the aid of other staff members he will initiate a program for the acquisition of additional materials.

Central Telephone Building Approved By Trustees

The Executive Committee of the Board of Trustees recently authorized the drawing up of plans for a new telephone building to be located on central campus, to provide facilities to meet the growing needs of the telephone system and also to provide for the new department of security.

The new building would bring together in a central location all the equipment now in Simmons Hall and Willard Hall. It would house the dialing system equipment and switchboards to serve all campus telephones.

The proposed system will make possible a separate exchange to serve all campus telephones, rather than the present system which operates as part of ADams exchange, which serves the State College area and the campus. It would also be adaptable to long-distance calling when these facilities become available in this area, speed intra-campus calls, and be designed to provide unlimited future expansion.

Art Exhibit At HUB Gallery

An exhibit of seriographs by Sister Mary Corita, professor of art at Immaculate Heart College in Los Angeles, Calif., and a leading liturgical artist, is now in progress at the Hetzel Union Building gallery and will continue until Dec. 21.

Sister Corita has had one-man shows at many colleges and universities in the United States and Canada and her work is included in permanent collections of many galleries, museums, and universities.

Dickens' Christmas Carol To Be Read Next Monday

A reading of Charles Dickens' classic, "A Christmas Carol" on Monday evening, Dec. 16, at 8 p.m. in the lounge of the Helen Eakin Eisenhower Chapel will be given by Jon Barry Wilder, junior in arts and letters. Wilder presented a reading of "A Christmas Carol" last year.

Dr. Tyler Presents AYI Lecture Today

Dr. Ralph W. Tyler, director of the Center for Advanced Study in the Behavioral Sciences, Stanford, California, will speak on "More Permanent Learning" at the Academic Year Institute Colloquium today at 3:10 p.m. in the Assembly Room of the Hetzel Union Building.

Dr. Tyler has served on the faculties of the universities of Nebraska, North Carolina, Chicago, and at Ohio State. He has been at his present position since 1953 and had previously been director of the examinations staff, United States Armed Forces Institute, and the University of Chicago examiner and dean of the division of the social sciences.

Medal To Recognize Education Achievements

The Penn State Medal, designed to recognize and honor the achievements of persons who have made outstanding contributions to higher education in the State, has been established by the Board of Trustees.

The award, consisting of a scroll and medallion, would be bestowed by the President of the University only when and as warranted. Nominations would be made by the President to the Board of Trustees.

Installation Of Schwab Seats To Be Made Over Holidays

Replacement of the present wooden seats in Schwab Auditorium, in use for more than 50 years, will take place during Christmas recess.

The new seats will be arranged to afford the best possible view of the stage. They will include seats of three widths—19, 20, and 21 inches—to achieve better arrangement. A total of 1140 seats will be installed, a slight reduction in present seating capacity of 1163.

New heating ventilators, flush with the floor, will replace the old-style "mushroom" heaters now in use.

Subcommittee On Academic Honesty

As adopted by the Senate on
November 7 and December 5, 1957

I. Introduction

The Senate Subcommittee on Academic Honesty was charged with 1. assessing on the campus the prevalence of dishonesty in examinations and in classwork, 2. ascertaining its causes, and 3. recommending procedures which will maintain classroom honesty at the highest possible level or will raise it to that level in those classes where it is not already there. Three categories of procedures for achieving these aims have been considered in order of decreasing importance: 1. those designed to encourage individuals to accept honesty as a desirable virtue for themselves; 2. those intended to decrease opportunity and temptation to be dishonest; and 3. those related to discipline.

Recommendations for action in these three categories have been made in the reverse order of their importance. This reverse order was used because it is far easier to recommend procedures for disciplining a guilty student or to recommend precautionary steps by which the opportunities for dishonesty can be lessened than it is to state how to build the integrity which will keep a person from giving way to temptation. A report recommending uniform disciplinary procedures was submitted in 1955, referred to the Council of Administration, and approved by that body. A second report recommending certain classroom procedures for reducing the opportunity and temptation to dishonesty in examinations was sent to each member of the Faculty later in the same year.

The present report represents this Subcommittee's progress in finding procedures belonging to category one, improvement of the attitude of individuals toward the virtue of classroom honesty. In this report, the establishment of honor systems of limited scope is recommended. To show what sort of an honor system can be expected to work at Penn State, and why particular features are desirable, this report presents opinions on the degree of academic honesty at Penn State, reviews the benefits to be derived from an honor system, and discusses past and present experiences with honor systems at this University. Evidence is presented that desire for an honor system is wide-spread on the campus among both faculty and students. Finally, a sample charter is presented which the Subcommittee believes provides the necessary features for a successful honor system at Penn State.

II. Some opinions on the prevalence and causes of cheating at Penn State

During the spring of 1956 a questionnaire was sent to all Department Heads. One question asked and the answers obtained (% of total answers) were: "In classes in your department do you believe that cheating is 0% Prevalent, 33% Occasional, 50% Rare, 13% Absent, 4% Don't know and prefer not to guess." A "prevalence index" was calculated like a grade point average, rating absent as 4, rare as 3, occasional as 2, and prevalent as 1. The resulting index was 2.69, about one-third of the way toward occasional from rare. A more extensive questionnaire was distributed to a representative sampling of undergraduates. About 600 questionnaires were distributed and 326 returned. Among the questions asked and answers received were the following:

For question 1 the "prevalence index" was again calculated by rating absent as 4, rare as 3, occasional as 2, and prevalent as 1. Answers were also tabulated and indices calculated by the College of the student's major, by his semester, by sex and by grade point average. Variations were found in all cases, but were usually small with the exception of question 1A, where student opinion as to the prevalence of cheating on exams in the student's own College varied greatly from College to College. One extreme was a college where the index was 2.00 (occasional). The other was a college where the index was 2.81 (nearly rare).

On the basis of these answers, it is concluded that students believe cheating to be wide spread, but not a general practice. It is more common on home-work than on exams. Students believe it is to be more common than do department heads. The extent to which it is practiced appears to vary greatly between colleges (and may be presumed to vary from department to department within colleges).

The survey indicates further that the primary causes of cheating are immaturity and

1. Cheating is

	Prevalent	Occasional	Rare	Absent	Don't know	Calculated Prevalence index (absent = 4)
A. In examinations in your College	7%	38%	37%	6%	12%	2.48
B. In examinations in other Colleges	8%	42%	12%	1%	37%	2.10
C. In homework, reports, etc. in your College ..	22%	48%	18%	3%	9%	2.03
D. In homework, reports, etc. in other Colleges ..	19%	35%	6%	2%	38%	1.86

2. About what percentage of all Penn State students do you think have ever cheated in their course-work (examinations or home-work) at Penn State: 0 — 5%, 6%; 5 — 20%, 23%; 20 — 50%, 28%; 50 — 100%, 41%; No answer 2%. Weighted average: 44%.

3. About what percentage of all Penn State students who themselves would never cheat do you think would allow someone else to do so without actively discouraging them from such misbehavior by any word or act: 0 — 5%, 5%; 5 — 20%, 16%; 20 — 50%, 33%; 50 — 100%, 44%; No answer 2%. Weighted average 53%.

4. Which of the following are important reasons why students cheat? (Check as many as apply)

In the case of students who cheat frequently	In the case of students who cheat only on rare occasions	
45%	1%	Student is basically dishonest.
69%	23%	Student is immature, and has not developed a proper moral code for himself.
39%	24%	Student knows cheating is wrong but thinks it is socially acceptable.
54%	78%	Student lacks the strength to resist temptation to cheat when grade in question is important to him.
46%	72%	Student ordinarily would never cheat, but he gets rattled under stress on exams and loses his moral perspective.
40%	33%	Student thinks he has to cheat because there are so many others doing it that he cannot get a fair grade otherwise.
30%	36%	Student believes that he is justified in cheating because he thinks the professor has been unfair to him (e.g. he thinks he is faced with an unfairly difficult exam).
40%	4%	Student thinks it is right to cheat, but wrong to be caught.
30%	8%	Student knows that even if he is caught, he will not be punished severely.

lack of the moral strength to resist temptation, particularly when combined with the intense stress which often accompanies examinations. It is not to a notably large extent basic dishonesty, erroneous self-justification, or the social acceptance of dishonest behavior. However, even among those who are themselves completely honest in their work, there is a significantly large proportion who under the present system are not prepared to take positive action to discourage dishonesty by others.

On the basis of the data presented above and other data collected over several years, it is concluded that the majority of Penn State students are basically honest, and deserve to be trusted in academic matters. It is believed that in a large number of courses on the campus academic dishonesty is rare or absent. Under these conditions vigilant supervision by a faculty proctor can have a deleterious effect on the morale of the class. Continuous, intense watching may tend to foster a sense of competition rather than cooperation between professor and student. It tends from its very nature to be an unfriendly procedure. It can be embarrassing especially to a professor who has attempted to establish a warm rapport with his students.

III. An honor system as an alternative to faculty proctoring

One of the most widely used proctoring methods, which is an alternative to faculty proctoring, is an honor system. An honor system differs from faculty proctoring in that the students individually and collectively take the responsibility of enforcing academic honesty. The honor system is a form of individual and group self-discipline.

The honor system has the following advantages in addition to being an effective substitute for faculty proctoring. It helps to develop a desirable attitude of responsibility in students. In a class conducted under the honor system, mutual respect of student and teacher for one another and joint respect for scholarship in general are more easily developed. To the student who would be honest under any circumstances, the honor system is a reward for his dependability. For the student who cannot be completely trusted, the honor system provides a means of strengthening his moral fiber by social pressure, which is more likely to be effective than any rules which the faculty might devise or attempt to enforce. In the case of the rare incorrigible who will cheat under any circumstances, he is less likely to get away

with wrongdoing when being watched by his fellows than when being policed by a faculty proctor. A successful honor system adds dignity to the educational process. Teaching and learning under it are likely to be more rewarding experiences than under the faculty proctoring system.

IV. Experience with honor systems at Penn State

Honor systems are not new to Penn State. In the early part of this century an honor system was developed in Engineering. Initially only seniors were involved, and only those who desired to do so participated. It applied only to examinations. Participants agreed in advance to three things. 1. To be strictly honest themselves; 2. to protest to anyone they observed cheating on an exam; and if this person did not stop to call this misbehavior to the attention of a third student, and then if the misbehavior still continued to report the fact to an Honor Council, who reviewed the case and recommended a penalty; and 3. to serve on the Honor Council if elected by their fellows. The few students who did not voluntarily accept the honor-system code were given their examinations separately in another faculty-proctored room. Those who accepted it took their exams without faculty supervision. Students felt they were privileged to take part in this program. They accepted the trust and responsibility involved, and they saw to it that their classmates upheld the system. In time it was expanded to include Juniors; and it continued to work. So successful was it, that the University expanded it to cover all classes, from Freshmen to Seniors, and all curricula as well as Engineering.

The universal application of the honor system proved to be a mistake, as cheating became prevalent. A number of factors may have contributed to its failure and eventual abandonment. World War I came and was accompanied by a general disruption of normal procedures and considerable deterioration in morals. The younger classes were unprepared for an honor system. They did not have a chance to learn of it before they became a part of it. They were given no interval during which they could develop respect for it as a tradition to which they could aspire in later years. And in the larger classes of the first two years of college their fellow students were often strangers for whom they felt none of the responsibilities of friendship; nor had they become, by long association in a curricular section, a part of a social

group which, by the threat of ostracism, set the moral standards of its members. Whatever the reasons were, these and possibly others, classroom dishonesty became so prevalent that the University was forced to re-adopt the faculty-proctoring system.

An honor system somewhat similar to Engineering's is currently in use in Air Force R.O.T.C. Each Senior in this program pledges "I will not lie, steal or cheat nor will I tolerate another senior cadet who violates these precepts." It is intended to govern all actions by a senior cadet, but is enforced only as it affects his Air Force activities. Cadets are required to report violations of the code by themselves or others. The Air Force Faculty believes that cheating in class work in Senior Air Force courses is extremely rare. The students themselves respect and cherish the privilege of operating under the system. They willingly report themselves late or absent from class.

Many individual professors conduct their exams under one or another form of honor system. In many graduate classes and some undergraduate ones where professor and students know each other well, mutual confidence is so great that a tacit honor system exists. Graduate students often are given take-home closed-book exams. In other cases the class may agree in writing to operate under an honor system on exams. Sometimes the professor leaves the room during the exam, but more often he remains, reading or doing other work, but not engaged in active proctoring. Such systems are most commonly found where classes are small and homogeneous, especially where the same students have taken several classes together and all know one another by name.

It is clear from these experiences that an honor system has the best chance of working successfully in group small enough that the members of the groups all know one another and have developed a group loyalty. Only where the individual has the desire to perpetuate the ideals of the group is he likely to take the necessary initiative to force the occasional strayer back into line. And only where the individual values his acceptance by the group will its moral standards become an important guide to his actions. The largest groups on campus meeting together regularly in many classes which meet this requirement are the students of one curriculum or major, and in a few cases even such a group may be undesirably large or the course programs of its members may be too varied to give the group the desired cohesion.

It is also concluded that honor systems should be restricted to classes composed predominantly of upperclassmen. Lowerclassmen should be prepared for later participation by the example and advice of upperclassmen. In a large university like Penn State, where students are drawn from many backgrounds, a period of preparation is a necessity. Not all of our students come to us with well developed moral codes. It is believed that the lowerclassman who sees the honor system at work will generally, by the time he becomes an upperclassman, have developed the trustworthiness necessary for responsible participation in the honor system. Thus not only will an honor system strengthen the moral fiber of the upperclassmen who come under it, but it will build this spirit in younger students as well.

Furthermore, an honor system should be offered only to those who want it. No student should be forced to participate reluctantly. Nor should any faculty member be forced to participate.

V. Readiness for an honor system

The next question which naturally arises is whether the conditions under which an honor system can be successfully operated are present on the campus today. To decide this it was thought appropriate to determine if there was a desire for an honor system. Department Heads were asked on the questionnaire referred to above: "In general, do you believe your faculty would be sympathetic with the idea of some form of honor system in upper-division courses (300-400 series) if a satisfactory system could be worked out?" The answers were: 29% Very much in favor; 4% Strongly opposed; 36% Sympathetic, but with some reservations; 0% Indifferent; 20% Dubious of its desirability; 9% Opinions likely to be divided; 2% Don't know how they would feel.

Students were asked: "Would you as an individual like to participate in some form of honor system in upper-division courses (400 series) if a satisfactory system could be worked out?" 45% Very much in favor; 3% Strongly opposed; 23% Sympathetic, but with some reservations; 9% Indifferent; 13% Dubious of its desirability; 7% No opinion.

These answers, plus written and oral comments received from many individuals, establish that there is a considerable desire for an honor system of some kind on the campus.

It is also clear that this desire is not universal. A few persons, both students and faculty, are strongly opposed.

It is believed that an honor system should be instituted at Penn State in those areas where conditions are favorable, but only under conditions where it is likely to be clearly more effective in promoting the objectives of our educational program than the present form of proctoring. We should develop the honor system carefully in limited areas, and expand it gradually only to the degree that it serves its purposes. It is hoped that by approaching the problem with this attitude the honor system will ultimately develop into a widely used honored tradition, valued by faculty and students alike.

VI. Administration

To assure that an honor system functions smoothly, particularly one which is not universal but applies only to certain students, it will generally be best for a clear set of rules to be accepted in advance by all participants. A sample charter for an honor system which meets the requirements outlined above is presented below. This has been prepared as a possible guide to anyone who may wish to start an honor system for a curriculum or major desiring it. It is not intended that honor systems be restricted to groups of this size. They are proper in groups as small as individual classes; and it is hoped that in time the first honor system set up will grow to include groups encompassing many curricula. In an institution the size of Penn State, a successful honor system (i.e. one which contributes effectively to raising or upholding the moral standards of the participants) is most likely to arise from small beginnings in those areas where it is most greatly desired. A healthy start is believed most probable if initial action in establishing an honor system is taken by the student group desiring it.

SAMPLE HONOR SYSTEM CHARTER

- Purpose:** The purpose of this honor system is to develop moral responsibility among students, to develop mutual respect and cooperation between students and faculty, to add dignity to the study and teaching of and to make studying and teaching this subject a more rewarding experience.
- Scope:** This honor system shall be used in all exams in courses offered primarily for upperclassmen majoring in and in which the majority of the students are from this curriculum as follows: (list). Students in this curriculum desiring to participate in this plan shall be privileged to do so on signing an Honor Roll, which shall signify that they have read and understood this charter, and agree to abide by its provisions.

Other students electing any of the above courses may participate on agreeing in writing to the same conditions.

- Responsibilities of students:** Each student participating in this honor system agrees to share the responsibility for making it work. Specifically he accepts the following responsibilities:
 - To be strictly honest in taking all exams in the designated courses, neither giving nor receiving unauthorized assistance.
 - To warn any individual whom he observes cheating on an exam to desist, to call the attention of a third student to the misbehavior; and if both then observe it, jointly to report the occurrence together with the name of the student involved to the Honor Council of the curriculum.
 - To serve on the Honor Council if elected.
 - To report to the Honor Council the general failure of the honor system should cheating in or out of the examination room become so prevalent or so serious that the procedures provided for in item b above are insufficient to control it.
 - To support the spirit of this honor system by word and example thru his behavior outside of class.
 - To encourage younger students in the curriculum to respect, cherish and look forward to the responsibilities and privileges of the system; to explain it to new students entering the curriculum and to students from other departments electing courses taught under this honor system; to encourage such students to participate in it; and to help in any way possible to perpetuate the honor system as a valued tradition.
- Privileges of students:** All announced examinations shall be proctored only as provided in article 3b above. After passing out the exam papers and allowing

sufficient time for proper questions regarding the exam, the professor in charge shall leave the examination room, returning at the end of the exam to pick up the papers. Students may leave the exam room freely during the exam to visit the lavatory, to have a smoke, or for any other legitimate reason.

- Responsibilities of faculty members:**
 - Faculty members shall assist students in any way that they can to develop and enjoy the trust and responsibility represented by this honor system.
 - They shall assume that all participating students are behaving honestly until clear evidence to the contrary is presented. Responsibility for enforcing classroom honesty under this honor system belongs primarily to the students.
- Minor procedural details**
 - In order that no student will be exposed to unnecessary temptation, and to avoid embarrassing circumstances where it might look as though a student was copying from another student's paper, alternate seating will be provided on all exams where this is possible. In rooms where the seats are too few to provide for this, the professor shall provide essay-type exam questions or alternate exams (with the order of the questions rearranged or with other minor differences, but not completely different exams) for students seated in adjoining seats.
 - When a student leaves the exam room he shall leave his own exam answers face down on the seat he occupies in the exam room. He shall leave the exam room without disturbing other students any more than he can help.
 - To be sure that each student remembers in taking the exam that he is operating under the honor system, the professor shall remind the class of this at the start of the exam, and each student shall write the following statement on the cover of his exam book: "This is my own work", and he shall sign his name.
 - Members of the class not electing to participate in the honor system shall take the exam in another room, arranged for by the professor in charge, where faculty proctoring is provided.
- The Honor Council:** The Honor Council shall consist of four Seniors, and two Juniors elected by their classmates who are participating in the honor system, two each year, at the beginning of the fall semester. The term of office of the Junior members shall be two years and of the Senior members, one year. Vacancies in the Honor Council at other times shall be filled by appointment of appropriate students by the remaining members of the Honor Council. The Honor Council shall elect a faculty advisor. The faculty advisor must be approved by the Head of the Department of
- Duties of the Honor Council.**
 - The Honor Council shall consider any cases of alleged academic dishonesty by students participating in the honor system. If the Honor Council is convinced that the trust of the honor system has been betrayed, all facts of the case shall be turned over to the appropriate College Disciplinary Committee. Such betrayal of the trust of this honor system shall be considered a particularly serious moral offense, and offenders shall be subject to severe disciplinary action, such as suspension or expulsion from the University, even for a first offense.
 - If it is reported to the Honor Council that the System has broken down in a class, the Council shall investigate the situation and either take such action as is necessary to remedy the situation or recommend to the Head of the Department that the Honor System be suspended.
 - The Honor Council shall meet at least once a semester with the members of the two lower classes in the curriculum to help to prepare them for participation in the honor system.
- Date of Initiation:** This Honor System shall go into effect as soon as approved by the Faculty of the Department of and the Department Head, and after 85% of the upperclassmen in the Curriculum have accepted in writing the terms of the charter. The charter must be approved by the Dean of the College of and by the Senate Committee on Student Affairs. It

(Continued on next page)

Study, Research Fellowships Open To Faculty Members

The Graduate School Office wishes to call the attention of the faculty to the *National Science Foundation Postdoctoral Fellowships* for study and/or research which are available to them in the following areas: mathematical, physical, medical, biological, engineering and other sciences, including anthropology, psychology, (excluding clinical psychology), geography, certain interdisciplinary fields and areas of convergence between the natural and social sciences. Interdisciplinary fields are such fields as: biochemistry, biophysics, geochemistry, statistics, and statistical design, and oceanography. Examples of fields of convergence are: mathematical economics, demography, information and communication theory, and the history and philosophy of science. Applications also will be accepted from persons holding doctoral degrees who wish further training in order to enhance their competence as researchers in the basic medical sciences.

Science Faculty Fellowships. The National Science Foundation will award nationally for 1958-59 approximately 60 science faculty fellowships to individuals to improve their competence as college or university teachers of science, mathematics, and engineering. Applicants may request tenure of from three to fifteen months. Of special interest is that the award may be requested in units of three successive summers instead of over a continuous period.

Eligibility requirements include a baccalaureate degree and three years of college or university teaching experience on a full time basis with the rank of instructor or higher, teaching mainly under graduate students. Science Faculty fellows will be selected on their potential and demonstrated ability as teachers of science.

Stipends will be adjusted to approximate the same income as that derived from the normal salary of the recipient, but are reduced by the amount of other fellowship or

sabbatical leave salary received. A travel allowance and an additional allowance for special needs are also available.

Applicants must submit an individualized plan of study and/or research carefully designed as a mechanism for increasing the competence of the applicant as a teacher. Applicants may propose several activities in their plan such as: advanced course work, research, independent study, extensive consultations with successful teachers and so forth.

Application materials may be obtained from the Division of Scientific Personnel and Education, National Science Foundation, Washington 25, D. C. Completed application materials must be received by the division not later than January 13, 1958, awards will be announced on March 20, 1958. A bulletin at the Graduate School Office gives further details.

Senior Postdoctoral Fellowships. The National Science Foundation plans to award nationally approximately 25 senior postdoctoral fellowships to recognized senior scientists five years or more past the doctoral degree at the time application is made. The applicant must present a plan for study and/or research with a view to increasing his competence in some specialized fields of science, or in broadening his competence in related fields of science. These fellowships are not thought of as merely providing support for research projects as such.

Stipends are computed individually on a salary matching principle, but are reduced by the amount of other fellowship or sabbatical leave pay received during the same time. A travel allowance and an additional allowance for special needs are also normally available. The National Science Award will be adjusted so that the combined support from the Foundation and other sources will not exceed \$10,000.00 per year plus special allowances for travel and other needs.

Application materials may be obtained from the address given above. Completed materials must be received by the Division of Scientific Personnel and Education not later than January 13, 1958. Fellowships will be awarded on March 18, 1958. A bulletin at the Graduate School Office gives further details.

Postdoctoral Resident Research Associate-ships at the Argonne National Laboratory, the National Bureau of Standards, the Naval Research Laboratory, and the Oakridge National Laboratory.

These research associatehips are available to young scientists holding the doctoral degree who have demonstrated superior ability for creative research in the areas of applied mathematics, biology, chemistry, ceramics, metallurgy, and physics. The special areas of interest to the different laboratories varies somewhat and bulletins listing the specific areas of interest to the different laboratories may be examined at the Graduate School Office. In addition to the above areas, engineering psychology is one of the areas for investigation at the Naval Research Laboratory.

Application form packets and additional information may be secured from the Graduate School Office, 104 Willard Building. Applications for the academic year 1958-59 must be received in the Office of Scientific Personnel not later than January 15, 1958. Awards will be made about April 1, 1958. The annual gross Stipend is \$7,035.00 subject to income tax.

Traveler Sought For Refund

The Pennsylvania Railroad has informed M. Josephine Groesbeck, University transportation coordinator, that it is attempting to locate a person who traveled between Altoona, Pa., and Burlington, Iowa, on Nov. 10. The railroad does not know the name of the person but believes him to be on the faculty or staff of the University and wishes to make a refund to the person.

Miss Groesbeck will be happy to assist in the matter if the person will contact her at Ext. 2604.

There will be an issue of the *Faculty Bulletin* next week, Dec. 20. The next issue to follow, however, will appear on Jan. 3, 1958.

Calendar

Friday, Dec. 13

AYI Colloquium, 3:10 p.m., Assembly Hall, Hetzel Union Building. Dr. Ralph W. Tyler, director of the Center For Advanced Study in the Behavioral Sciences, Stanford, California, on "More Permanent Learning."
28th German Sing, 7:30 p.m., Schwab Auditorium.

Saturday, Dec. 14

Candlelight Service, 10:55 p.m., Schwab Auditorium. Anthems by Chapel Choir, under direction of Willa C. Taylor.
Players production of "The Caine Mutiny Story," 8 p.m., Center Stage.
Varsity basketball, 8 p.m., versus Colgate, Rec Hall.

Sunday, Dec. 15

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.
Roman Catholic Mass, 9 a.m., Schwab Auditorium.
Chapel Service, 10:55 a.m., Schwab Auditorium. Christmas Choral program by the Chapel Choir, directed by Willa C. Taylor.
Hillel Film Forum, Hillel Foundation, Armstrong Circle Theatre kinescope recording of "The Dead Sea Scrolls," with Dr. Frederick R. Matson, professor of archaeology, as faculty commentator.

Monday, Dec. 16

Reading of Dickens' "A Christmas Carol," by Jon Barry Wilder, student in arts and letters, 8 p.m., lounge of Helen Eakin Eisenhower Chapel.
Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Christmas carols by trio and triple trio of the University Women's Chorus, directed by Dr. W. P. Campbell.

Tuesday, Dec. 17

Physics Colloquium, 4:10 p.m., 117 Osmond Lab. Dr. Robert Perry, Johnson Foundation, University of Pennsylvania, on "Experiments with an Ultra-violet Microbeam."
Joint meeting of the Institute of Radio Engineers, American Institute of Electrical Engineers, and the Electrical Engineering Society, 7:15 p.m., 219 Electrical Engineering. Richard D'Ardenne, field engineer, Nuclear Systems Group, Leeds and Northrup Co., on "Instrumentation for Nuclear Reactors."
Economics Faculty Seminar, 12 noon, Dining Room "A", Hetzel Union Building. Dr. Lawrence E. Fouraker, professor of economics, on "The Dual Functions of a University" with Lawrence E. Dennis, vice-president for academic affairs, as discussant.

Philosophy Colloquium, 4:10 p.m., 236 Sparks Building. Dr. Fred Will, assistant professor of classical languages, on "The Motive and Rhythm of Naming."
Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Charles E. Minneman, assistant University chaplain, in charge.
Festival of carols and lessons, Meditation Chapel Choir, 8 p.m., Meditation Chapel. Reception follows in main lounge, Helen Eakin Eisenhower Chapel.

AYI meeting, with two films, in 110 Osmond Lab. At 3:10 p.m., film of Dr. Linus Pauling, professor of chemistry, California Institute of Technology, on "Three Lectures on Valence"; at 3:30 p.m., film of Dr. W. R. Breneman, professor of zoology, Indiana University, on "Reproduction."

Meteorology Seminar, 4 p.m., 202 Willard Building. Wayne Hering, Geophysical Research Directorate, U.S. Air Force, Boston, Mass., on "Stratospheric Circulation."

Thursday, Dec. 19

Meeting of Phi Epsilon Phi, national botanical honorary fraternity, 7:30 p.m., 218 Buckhout Lab. Dr. A. K. Blackadar, assistant professor of meteorology, on "The Probable Future of Meteorological Research at Penn State and Elsewhere."

Joint Physics-Mathematics Colloquium, 3:10 p.m., 316 Sparks Building. Prof. J. L. Deslouches, Sorbonne, Paris, on "The Notion of Corpuscles."

Liberal Arts Research Luncheon, 12 noon, dining room "A", Hetzel Union Building. Dr. Leon Roudiez, associate professor of romance languages, on "A Dialogue on the Absurd."

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Jewish Hanukkah Service.

Friday, Dec. 20

Fluids Mechanics seminar, 4:10 p.m., Room 1, Sackett Building (informal gathering at 3:45 p.m.). Dr. Hsuan Yeh, professor of mechanical engineering, University of Pennsylvania, on "Flow Distortion and Stall Propagation in Axial Flow Compressors."

Academic Honesty—

shall remain in effect unless suspended by the Department Head, or the Dean, or the Senate Committee on Student Affairs.

SENATE SUBCOMMITTEE ON ACADEMIC HONESTY

R. E. Armington, J. A. Hance, B. F. Howell, Jr., Chairman, A. E. Nitrauer, C. A. Swain, G. S. Wills, H. L. Yeagley.

15 April 1957

RECOMMENDATION OF THE SENATE COMMITTEE ON STUDENT AFFAIRS

It is believed that only slight revision of the Senate Regulations for Undergraduate Students is necessary to permit adoption of Honor Systems of the type outlined in the Subcommittee report. Since proctoring by an honor system represents a clear departure in spirit from the faculty-proctoring system in use at present, it would seem appropriate for the Senate to acknowledge the acceptability of this method. Therefore, the following action is recommended.

1. That the University Senate signify its approval in principle of a formal honor system of the type outlined in this report by amendment of Rule O-3 to read as follows: "In order to protect the great majority of honest students from improper actions by a small minority who would otherwise be tempted to dishonesty, all examinations shall be adequately proctored. A formal honor system under the supervision of an Honor Council is considered 'adequate proctoring'. Any case of dishonesty . . ."
2. That upon approval of (1), above, by the University Senate, the Secretary of the Senate distribute copies of the subcommittee report to each member of the Student Council of the several colleges, to each member of the several teaching faculties, to each dormitory counselor, to officers of each sorority and fraternity and to the Daily Collegian.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Leaves Granted, Extended

Leaves of absence, or extension of leaves, were approved for the following faculty members by the Board of Trustees at its December meeting:

Dr. Frank M. Swartz, head of the department of geology, from Feb. 1 to July 31, 1958, to work on scientific papers in the field of stratigraphic and paleontologic geology.

Dr. Joseph H. Dahmus, professor of medieval history, Feb. 1 to June 30, to work on a textbook in history.

Mortimer I. Kay, research associate in physics, Oct. 16 to June 30, for research at Brookhaven National Laboratory, Upton, N.Y.

Paul R. Glantz, instructor in veterinary science, from Nov. 11 to Feb. 10, for special graduate work at the Communicable Disease Center, Chamblee, Ga.

Henry M. Berger, assistant county agricultural agent in Northampton County Nov. 1 to June 30, for military service. Walter L. Welker, assistant county agricultural agent in Bradford County, Feb. 1, 1958, to Jan. 31, 1959, for graduate work in rural sociology.

Betty Parks Strutin, extension home economist in Lackawanna County, Feb. 1 to April 30 and June 1 to Aug. 31 for travel and study.

The date of the leave for James O. Dutt, professor of vegetable gardening extension, enrolled at the University of Wisconsin, has been changed to Oct. 16 to Oct. 15, 1958.

The leave for Dr. Harold F. Alderfer, professor of political science now in State government service, was extended from Jan. 31 to Jan. 31, 1959.

Leave for Elliot Rhian, research associate in the Ordnance Research Lab who is participating in studies of the Mine Advisory Committee, was extended from Oct. 15 to June 30, 1958.

\$108,000 Loan Fund Set Up For Students In Mech. Eng.

A loan fund to be known as the Louis A. Harding Scholarship Fund has been established under the terms of the will of the late Mrs. Charlotte Hanes Harding, of Buffalo, N.Y., to aid students in mechanical engineering.

Mrs. Harding was the widow of Louis A. Harding, an 1899 graduate of Penn State who was also head of the department of mechanical engineering from 1909 to 1912. He won wide acclaim in the fields of power plants, heating, ventilating and refrigeration, and was Commissioner of Public Works of the City of Buffalo at his death in 1953.

The will provides a sum of \$108,000, income of which is to be used for loans to sophomores, juniors, and seniors in mechanical engineering on the basis of scholastic standing, need, and character.

Resignations Of Seven Announced By Board

Resignations of seven faculty members were reported to the Board of Trustees at its December meeting:

Robert J. Urlick, professor of engineering research, effective Nov. 27; Dr. Mary P. Shelton, director of the Ellen H. Richards Institute, effective Jan. 31; Dr. Horace R. Danner, research associate in physics, Oct. 31; Dr. Thomas N. Hall, research associate in chemistry, Oct. 31; Dr. Tryggve Baak, research associate in ceramic technology, Oct. 15; Clare M. Smith, extension home economist in Beaver County, Dec. 31; and James R. Simons, associate county agricultural agent in Montgomery County, Nov. 30.

Zorach Sculpture Purchased, Now On Exhibit In Old Main

"Child and Cat," a bronze piece by the famous American sculptor, William Zorach, has been purchased by the University and placed on exhibition on the main floor of the Hetzel Union Building. It stands 24 inches high.

The purchase by the Art Exhibition and Acquisitions Committee was made possible by funds provided through the Penn State Foundation.

Zorach, who was born in Lithuania and came to this country at the age of 4, has become known as the dean of American sculptors. His bronze, Dahlov, a figure of a young girl, was exhibited for a number of years in Old Main, and more recently The Lineman, a football player executed in stone, was on exhibition in Old Main.

AAUP Announces Officers

The Penn State chapter of the American Association of University Professors has announced the officers recently elected for the coming year:

Dr. E. Willard Miller, head of the department of geography, succeeding Merwin W. Humphrey, professor of forestry, as president.

Dr. Leon R. Kneebone, associate professor of botany and plant pathology, succeeding Allen E. Wierman, assistant supervisor of correspondence instruction, as vice-president.

Dr. Harold E. Dickson, professor of history of art and architecture, succeeding Dr. Dorothy H. Veon, professor of education, as secretary.

Dr. Francis A. Babione, associate professor of marketing, succeeding Warren S. Smith, associate professor of theatre arts, as treasurer.

Speech Books Sought For Many Foreign Countries

A nationwide movement among many universities, including Penn State, is aimed at providing surplus American books on speech to nations where there is a shortage of such books.

Dr. Robert T. Oliver, head of the department of speech, is serving on the national committee of the Speech Association of America which is making the collection, and is heading Penn State's project.

Many universities in foreign lands have limited books on speech, Dr. Oliver explains. The Association believes that the teaching of effective speech is essential to a democracy where there is a need for educated young men and women who can express themselves effectively.

Faculty members who desire to contribute books may send them to the department of speech. Normally they will be sent to countries from which requests have been received by the Association, but donors may designate a country of their own choice.

Already nearly 60 universities have pledged more than 10,000 volumes. The goal is 50,000. More than 200 separate requests have been received from India, Japan, Turkey, Egypt, Burma, Indonesia, Syria, Formosa, Germany, and South American countries.

French Writer Camus Subject Of Exhibit

French writer Albert Camus, awarded the 1957 Nobel prize for literature, is the subject of an exhibition now on display on the second floor of Pattee Library.

Copies of books by Camus, newspaper clippings pertaining to the award, a letter from Camus to Dr. Leon S. Roudiez, associate professor of Romance languages, galley proofs of an article by Dr. Roudiez on Camus and Herman Melville, and two articles by Dr. Laurent LeSage, professor of Romance Languages, are among the items on exhibit.

UCA Summer Seminars Organized Well, Give Students Experience To Remember

FOR most students the thought of a trip to Europe has seemed out of the question, but 30 or 40 of them will make such a trip next summer and get more for their money than they ever dreamed of.

The fortunate students will be taking part in one of the two European Seminars sponsored by the University Christian Association, as others have for the past two years.

The Seminars are "bargains," not alone because the six-weeks trip is made for under a thousand dollars but also because of the way it is organized. Each has a definite "theme" and contacts are made with European officials, educators, scientists or artists, students and common folk to fulfill that theme.

"The UCA sponsors the seminars to give students a chance to widen their horizons and increase their understanding of Europe," says Sam Gibson, executive director of UCA. "The seminar next year titled 'Introduction to Europe' will take the group to England, France, Germany, Yugoslavia, Italy, Belgium, and Holland. A second, 'Perspectives on the Arts and Architecture' will include those same countries with the exception of Yugoslavia."

The seminars are sponsored by the UCA in order to contribute to the understanding of this age of political and spiritual upheaval and to offer a more adequate perspective on the various cultural expressions—political, religious, economic, artistic—of contemporary Europe. The students are encouraged to think for themselves about these matters.

With each group is a faculty member, a person with some background to aid the students in asking the "hard" questions of people they meet and who has some familiarity with the general area of the theme of the seminar. Next summer, A. William Hajar, professor of architecture, will head the seminar on art and architecture, and Dr. Howard A. Cutler, head, department of economics, will be the leader of the other seminar.

The first seminar, in 1956, found 22 students under the leadership of Dr. Frederick R. Matson, professor of archaeology, and Robert Starbuck, then associate director of UCA, traveling 1700 miles, with stops at Oxford University, London, Bonn, Berlin, Geneva, Paris, the Swiss Alps, and Amsterdam. This past summer, Dr. John E. Pixton, Jr., assistant professor of history, and his wife led one group, and Starbuck led a second seminar.

The groups, after their selection early in the year, are given a short orientation program on details of travel, as well as on contemporary Europe.

"We also find it advisable," says Gibson, "to provide lectures on the United States, because the group is asked many questions. They are, after all, unofficial representatives of this country to anyone they meet, just as foreign visitors here are looked on as ambassadors of their own countries."

A second orientation program is given when the students reach England, their initial stop. At Cambridge University, four or five young faculty members and, in some cases, members of Parliament, talk to the group on England and Europe, illustrating the history, problems, and life of the countries the students will visit.

A typical day at any one stopping point will include a lecture, an organized tour, and free time for individual interests. The local leader is a contact person who is also an interpreter and arranger. Lecturers are men of considerable stature in their special field, some of them high government officials or university professors. In many areas the group will meet university students and have an opportunity to get the student-eye picture of that country. In others, they will talk with the "man on the street." While much is arranged for them, they also have sufficient free hours to do their own exploring.

It is primarily in the organized educational activities that the seminar differs from the usual sightseeing trip. The seminar affords him insights which no sightseeing trip can possibly provide.

"We feel," says one parent, "that our daughter matured at least two years as a result of her experiences as a member of the UCA seminar."

Not only do the students mature, explains Gibson, but their future understanding of European people and problems will be sounder, based not on the superficial knowledge of buildings and landscape but on personal contacts with people who are helping to mold Europe.

Other UCA Programs

While the Seminars are one of the better known features of the UCA program, they constitute only a small segment of it. Hundreds of students are affected by the day-to-day services of worship, informal discussions, residence hall "gatherings," formal classes, community service projects, personal counseling, weekend retreats, social gatherings, and International firesides.

One of the most important UCA programs is that of formal religious classes, in which about a hundred students each semester study the intellectual phase of the Christian faith. Information, ideas, and opinions are given by ministers and laymen of local churches and by UCA staff members. This year, five ten-weeks courses are being offered—titled *Christian Ethics and Contemporary Problems*; *Introduction to Protestant Theology*; *Church and World*; *The Meaning of Christ*; and *Introduction to the Bible*.

In many informal discussions, such as those in the residence halls, the application of religion to various aspects of daily living seems to be of major interest to the students.

There is no one pattern discernible in the needs of students, Gibson says. The UCA attempts to carry several levels of programs designed to meet different needs. Although the UCA proceeds on Christian assumptions, and desires to make known Christian concerns and interpretations, it does not do so in a dogmatic fashion. In discussions, the leader is not there primarily to give the answer, but to get the students to ask the right questions.

"Obviously many students who have no formal church connection get involved in these discussions," Gibson points out. "In one residence hall, when a discussion was held on 'God—Elective or Required', there was a packed house. In a woman's residence hall, many coeds came to hear a discussion about interfaith dating."

A new program sponsored by UCA this fall was that of inviting new students into the home of faculty members on the first night of orientation week. This year over a thousand incoming students took advantage of this informal get-together in 85 faculty homes.

The UCA also has a program for faculty and staff members, involving seminars, opportunities to talk with Chapel speakers, and conferences (Dr. Philip Jacob, author of "Changing Values in College," was the resource person for a two-day conference on "Contemporary Values in Higher Education" attended by 25 Penn State faculty members).

As the University's enrollment increases, Gibson says, the work of UCA becomes increasingly important. "The continued help of the faculty financially, organizationally, and spiritually," Gibson adds, "will help retain the national reputation Penn State has as a leader in religious work on a State University campus."

Items of Interest

Dr. Ralph F. Nielsen, professor of petroleum and natural gas engineering, led a panel discussion on recovery of more oil from reservoirs at the secondary recovery study group of the Eastern District of the American Petroleum Institute meeting at Bradford recently.

* * *

Dr. Malcolm McQuarrie, associate professor of ceramic technology, presented a paper titled "Effect of Microstructure on the Dielectric Properties of Ceramics" at a meeting held at the Massachusetts recently.

* * *

An article titled "Career Information for High Schools," appearing in the December issue of the Journal of the American Association for Health, Physical Education, and Recreation, was authored by Dr. Arthur L. Harnett, professor of physical education.

* * *

Dr. Ruth Silva, associate professor of political science, was recently quoted in "Life" magazine in an article dealing with the issues of Presidential disability and inability.

* * *

Robert F. Marboe, assistant director of the Ordnance Research Laboratory and a commander in the U.S. Navy Reserve, has completed a two-week course in Guided Missiles sponsored by the Bureau of Ordnance, Department of the Navy, as part of the active duty training for Naval reservists.

* * *

Dr. F. G. Brickwedde, dean of the College of Chemistry and Physics, addressed the Pittsburgh section of the American Chemical Society at Mellon Institute, Pittsburgh, recently on "Temperatures in Atomic Explosions."

* * *

Dr. John B. Washko, professor of agronomy, spoke recently at the annual crop show of the Delaware Crop Improvement Association at Dover, Delaware, on "Legumes vs. Grass and Legume Mixtures for Delaware Livestock."

* * *

Dr. M. A. Farrell, vice-president for research, was recently re-elected vice chairman of the Experiment Station Committee on Policy of the American Association of Land-Grant Colleges and State Universities, and also northeast representative on the legislative committee.

* * *

Dr. Max D. Richards, associate professor of management, recently addressed a conference of managers and supervisors in Reading, Pa., sponsored by the chapter of the Society for the Advancement of Management, on the subject, "Pitfalls in Decision-Making."

R. Rupert Kountz, professor of sanitary engineering, spoke on the subject "Small Sewerage Systems for Housing Developments" at the State Conference of the Pennsylvania Home Builders Association in Harrisburg, recently.

* * *

Dr. Andrew A. Benson, associate professor of agricultural and biological chemistry, has been elected vice-chairman of the Central Pennsylvania Section of the American Chemical Society. Dr. Joseph A. Dixon, associate professor of chemistry, is the new secretary, and Dr. Philip S. Skell, associate professor of chemistry is the treasurer.

* * *

Harold P. Zelko, professor of speech, and Robert G. Weaver, training coordinator, spoke on "Training in Communications" before the Central Pennsylvania Chapter of the American Society of Training Directors in Harrisburg recently.

* * *

Dr. Eugene T. McDonald, director of the Speech and Hearing Clinic, was nominated for the post of executive vice-president elect at the business meeting of the American Speech and Hearing Association recently. The entire senior staff—including Dr. James Frick, Dr. Asa Berlin, Dr. Bruce Siegenthaler, and Margaret Raabe—participated in the program of the Association's convention.

* * *

Improvement of grape culture, aided by a grant of \$3,500 from the National Grape Cooperative Association, is the aim of studies being carried out on campus and at the University's Ag Experiment Station laboratory at North East, Erie County. On campus, the work is supervised by Dr. Russell E. Larson, head of the department of horticulture. At North East, Dr. James Cox, professor of economic entomology, is studying insect problems, and Harold K. Fleming, professor of pomology, is studying management practices.

* * *

Harold P. Zelko, professor of speech, conducted two one-day seminar and workshop programs on "Effective Communication in Business" at the University of Wisconsin, in a program sponsored by the Management Institute for plant managers and other company officials.

* * *

A one-year grant of \$14,000 by the Army Ordnance Corps is aiding research on short-lived radioisotopes and on reactions initiated by triton, a hydrogen isotope, by Dr. Rolf G. Winter, assistant professor of physics.

* * *

A contract for research in the field of geochemistry has been awarded by the U.S. Army Signal Corps to Dr. Rustum Roy, professor of geochemistry. The present contract is for nearly \$19,000. The Signal Corps has supported this work for the past six years.

Films Listed For Preview

Materials listed below have been requested. Please call Extension 2051 and give code number of those you would like to see; you will be notified when they arrive so that you can arrange a preview showing in Room 9, Library.

- N-37 Energy
- N-38 Examining the Will to Work (supervisory techniques)
- N-39 Open Window (landscape painting from 15th to 19th century)
- N-40 A Dancer's World (Martha Graham)
- N-41 Humanism — Victory of the Spirit
- N-42 Teaching Drafting with Transparencies
- N-43 Rocks
- N-44 Let's Take a Walk Along the Brook
- N-45 Let's Take a Walk in the Woods
- N-46 Let's Take a Walk in the Meadows and Watch Some Birds
- N-47 Chemistry (primary science)
- N-48 Earth (primary science)
- N-49 Meeting the Challenge of the Gifted (special education)
- N-50 Youth and the U.N.
- N-51 Marsh Waters—Waste or Wealth
- N-52 Colonial Living
- N-53 Effectiveness of Audio-Visual Materials (filmstrip)
- N-54 How to Use a Teaching Film (filmstrip)
- N-55 Teaching by Television (filmstrip)
- N-56 Beginning Good Posture Habits
- N-57 First Aid for Air Crew (general first aid techniques)
- N-58 How to Make and Use a Diorama
- N-59 Magic Myxies
- D-1 President (Prof. Huitt, U. of Wisconsin)
- D-2 Civil Rights (Prof. Huitt, U. of Wisconsin)
- D-3 Federal System (Prof. Huitt, U. of Wisconsin)
- D-4 Roots of American Government (Prof. Huitt, U. of Wisconsin)
- D-5 The City Is a Playground
- D-6 Sputnik — Its Impact and Challenge (World Affairs Center)
- D-7 Little Rock and World Opinion (World Affairs Center)
- D-8 Can the UN Keep the Peace? (World Affairs Center)
- D-9 A Career in Bacteriology
- D-10 The London of William Hogarth
- D-11 Regina Coeli (Queen of Heaven) (Fra Angelico)
- D-12 He Who Dares to Teach (Parent-participation in nursery program)
- D-13 Town and Country Recreation
- D-14 Children Who Draw (Primary art in Tokyo)
- D-15 The Ladybird Story
- D-16 Life on a Dead Tree
- D-17 Follies of the Town (Hogarth)
- D-18 Minnesota Brown Trout (Conservation)
- D-19 French Revolution
- D-20 Travel in America in the 1840's
- D-21 Transportation in the Modern World
- D-22 The Jamestown Colony (1607 through 1620).

Graduate Record Exam Listed

The next Graduate Record Examination will be held on Saturday, Jan. 18, at 8:45 a.m. and 1:45 p.m. at the University. Bulletins of information and application blanks are available in Room 117, Buckhout Lab. Applications must be received at the Educational Testing Service, 20 Nassau St., Princeton, N.J., not later than Jan. 3.

Two Divisions Join New Security Department

The safety division and the campus patrol became part of the new department of security on Dec. 1. Elwood F. Olver is director of the department, which was established last June and became effective Oct. 1.

The new department encompasses safety, campus patrol, parking and traffic, waste disposal, and disaster.

Loan Fund Established

A loan fund to aid students in financial need has been established by the Class of 1917. Capital for the fund will be accumulated from gifts from members of the class and from repayment of loans and interest.

Loans will be made on the basis of character, financial need, and ability and need not be repaid until after graduation, when interest rates will be 2 per cent the first year, increasing to 6 per cent in the third year.

Report from the Registrar

WITHDRAWALS (Campus)

- 3 Albert, George L., ChE., Nov. 18
- 7 DeVore, Joanne M., HE, Nov. 9
- 1 Donchez, Stephen Robert, EE, Nov. 19
- 8 Freed, John Irvin, IE, Dec. 2
- 3 Grandinetti, Patrick R., Coun, Nov. 26
- 1 Halsted, Irving L., Jr., BA, Nov. 22
- 3 Landis, Donald H., Arch., Dec. 3
- 5 Price, Franklin J., Phys, Nov. 27
- 7 Price, Virginia-Lynne, SecEd, Dec. 28
- 1 Rodgers, Jon Thomas, AgEc, Nov. 23
- 9 Shoup, Dale S., A&L, Nov. 27
- Gr Strobe, Marvin Bernard, Dec. 3
- 1 Teitelbaum, Ellen Janis, Arts, Nov. 22
- Gr Veale, Ralph C., Dec. 2
- 1 Wasserman, Robert M., ChE, Nov. 26
- 2 Wayne, Ronald Lewis, Metal, Nov. 21
- 1 Alexander, David R., CE, Dec. 5
- 5 Diehl, James Monroe, Coun, Dec. 9
- 5 Duffy, Francis J., Phys, Dec. 6
- 3 Fellows, Daniel K., AH, Dec. 4
- 1 Ford, Charlotte Louise, PhD, Nov. 25
- Gr Goosman, Karl William, Jr., Dec. 6
- 5 Gram, Robert E., EE, Dec. 7
- 1 Hollenshead, James Norman, AgEd, Oct. 4
- Gr Huber, John Jacob, Oct. 31
- 7 James, Daniel Everett, CE, Dec. 6
- 7 Litz, Patricia B., Meteo, Nov. 27
- 1 McAvoy, Miriam E., A&L, Nov. 23
- 3 McDowell, James R., A&L, Dec. 9
- 3 McKee, George Lynn, Coun, Dec. 6
- Gr Mathias, Charles Edmond, Nov. 22
- 1 Mallin, John R., A&L, Nov. 27
- 3 Mumau, George Robert, Metal, Nov. 21
- 5 Olderman, Joel Michael, Arch, Nov. 27
- 7 Perry, Thomas C., Meteo, Oct. 5
- 3 Popovich, William Walter, LArch, Dec. 7
- 8 Stillman, Julia, HEc, Nov. 26
- 1 Whitsell, Burl Francis, CE, Nov. 27
- 2 Williams, Phillip Charles, Psy, Dec. 4
- 6 Wolf, Frank L., Arch, Dec. 3
- 1 Zucherwar, Wheila J., A&L, Dec. 11

WITHDRAWALS (Unversity Centers)

- Mont Alto
- 1 Lovell, Nelson Bernon, For, Dec. 6
- Bachelor Degree Program
- 2 Hickin, Gerald Dennis, BA, Nov. 13
 - 4 Kost, John A., ME, Nov. 25
 - 1 Davis, Richard J., AH, Nov. 27
 - 1 Gates, Stuard D., ME, Oct. 21
 - 3 Kurylak, Vladimira L., A&L, Nov. 19
 - 1 McCarthy, Helen June, HoEc, Nov. 18
 - 1 Pearce, David Albert, BA, Nov. 25
 - 1 Traugh, James Savidge, ME, Dec. 6
- Associate Degree Program
- 3 Clark, John Davis, DT, Nov. 25
 - 1 Fidyk, John, DT, Oct. 11
 - 1 Hoffman, Paul Alfred, ET, Nov. 7
 - 1 Miller, Gary Lynn, DT, Nov. 13
 - 1 Newcomb, John Joseph, ST, Oct. 28
 - 1 Shelley, John Harry, ET, Nov. 21
 - 1 Best, Robert Newton, PT, Nov. 15
 - 1 Bray, James DeForest, DDT, Oct. 17
 - 1 Eisenman, David Lane, ET, Nov. 21
 - 1 George, Harry William, ET, Nov. 23
 - 1 Kroh, Daniel Lee, DDT, Nov. 26
 - 3 Palumbo, Salvatore John, DT, Nov. 4
 - 1 Rupczewski, Joseph John, ET, Nov. 11
 - 1 Woods, Marshall Andrew, ET, Sept. 27

The following reasons were given for withdrawing: Scholastic 8, Personal 29, Illness 10, Financial 10, Transferring 2, Military Service 1, and Other 4.

Change of Names

Winslow, Josephine Borkowski from Borkowski, Josephine.

New Scholarships Announced

Full tuition and fees for a senior in engineering or science will be paid by the Bendix Aviation Corp. under a scholarship plan recently announced. Sons and daughters of the employees of the corporation will be given preference.

A \$2,000 scholarship, at \$250 per semester, will be granted to an entering freshman interested in ceramic technology by the American Encaustic Co., Inc., of Lansdale. Special consideration will be given to employees or children of employees of the company.

The Sharon Herald, Sharon, Pa., has established a \$1,000 scholarship to encourage talented high school graduates to enter the field of journalism. The award, open to graduates of a Mercer County high school and graduates of Brookfield and Hartford high schools in Ohio, honors the late C. B. Lartz, who was co-publisher of the newspaper.

Two scholarships provided by the American Die Casting Institute, Inc., have been established for full-time undergraduates enrolled in advanced courses in casting technology in the College of Engineering and Architecture. The scholarships are valued at \$300 per year.

(Note: More information is available on all these scholarships in the office of the Co-ordinator of Scholarships, 204 Old Main.)

Dr. Will To Talk At

L.A. Research Luncheon

Dr. Frederic Will, Jr., assistant professor of classical languages, will speak on "What Are Literary Genres?" at the Liberal Arts Research Luncheon, Thursday, Jan. 9, at noon in dining room "A" of the Hetzel Union Building.

The luncheon, cafeteria style, is open to anyone interested.

Dr. Will, who obtained the degree of doctor of philosophy in comparative literature at Yale University, is the author of articles on William Blake, Sir Joshua Reynolds, Johann Winckelmann, Victor Cousin, Moses Mendelssohn, Goethe, and Hazlitt. His talk at the luncheon will deal with the degrees of objectivity that can be expressed through lyric, dramatic, and epic genres.

Holiday Schedule Announced For HUB, Cafeteria, Lion's Den

The Hetzel Union Building will be closed completely from Dec. 25 to Dec. 29 and also on Jan. 1, and will operate on reduced schedule on other days during the Christmas recess. From Dec. 21 through Dec. 23, the HUB will be open from 8 a.m. to 8 p.m.. On Dec. 24, 30, 31, the building will be open from 8 a.m. to 5 p.m. A full schedule will be resumed on Jan. 2.

The HUB cafeteria will serve its last meal at lunch, on Dec. 24 and resume schedule at lunch, Jan. 2. The Lion's Den snack bar will close today and resume operations for breakfast Jan. 2.

Calendar

Saturday, Dec. 21

Classes end, 11:50 a.m.

Tuesday, Dec. 24

University offices close, 5 p.m., for Christmas holiday.

Wednesday, Dec. 25

Merry Christmas

Monday, Dec. 30

University offices reopen, 8 a.m.

Wednesday, Jan. 1

University offices closed.

Friday, Jan. 3

Classes resume, 8 a.m.

Tuesday, Jan. 7

Physics Colloquium, 4:10 p.m., 117 Osmond Lab. Dr. Peter Musen, research mathematician, Continental Oil Co., Ponca City, Oklahoma, on "The Theory of Perturbations of the Artificial Satellite."

Grade Summary Given By Admissions Office

A summary of grades for the spring, 1957, semester shows that, University-wide, 15.4 per cent of the 67,305 grades issued were D's or F's, while 55.6 per cent were A's or B's.

The summary was prepared by the office of the Dean of Admissions and Registrar and shows grade distributions of 10,775 campus undergraduate students by curriculum and also for all undergraduate courses by department. A limited number of copies of the summary is available to faculty members. Distribution has been made to department offices.

By college, the grade distribution by courses, percentage-wise, shows the following:

College	A's	B's	C's	D's	F's
Agri.	24.8	41.5	23.8	7.1	2.8
Bus. Adm. .	9.8	31.0	40.8	14.8	3.6
C. & P.	9.4	22.2	32.1	22.9	13.4
Educ.	24.6	43.6	22.4	7.9	1.5
E. & A.	18.9	37.1	28.4	12.7	2.9
Home Ec ..	19.2	50.6	25.5	4.1	0.6
L.A.	14.5	31.8	34.3	12.8	6.6
Min. Ind. .	18.5	38.5	30.3	9.7	3.0
P. Ed. & A..	52.0	37.6	8.4	0.8	1.2
Mil. Dept. .	18.3	40.5	30.3	8.4	2.9
Total ..	20.0	35.6	29.0	11.0	4.4

A comparison of grade distribution in the spring semester of 1955, when the University operated under the 3-, 2,1,0,-1,-2 grading system shows little change to the present. In 1955, the percentages were: 3's — 19.7; 2's — 35.1; 1's — 30.1; 0's — 11.1; minus 1s, — 3.4; and minus 2's — 0.6.

Library Hours Announced

The Pattee Library will observe the following hours during the Christmas recess.

Saturday, Dec. 21—7:50 a.m.-12:00 p.m.

Sunday, Dec. 22 — Closed

Monday - Tuesday, Dec. 23-24—

9:00 a.m. - 5:00 p.m.

Wednesday - Sunday, Dec. 25-29—

Closed

Monday - Tuesday, Dec. 30-31—

9:00 a.m. - 5:00 p.m.

Wednesday, Jan. 1 — Closed

Thursday, Jan. 2—9:00 a.m.-5:00 p.m.

Friday, Jan. 3 — 7:50 a.m.-10:00 p.m.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Violinist Erica Morini In Concert Thursday

Faculty members may obtain tickets for the concert to be presented next Thursday, Jan. 9, by the violinist, Erica Morini, on Tuesday and Wednesday, Jan. 7 and 8, 9 a.m. to noon and 1 to 5 p.m. at the Hetzel Union Building desk. The price is \$1.25.

Miss Morini, who is scheduled for 8:30 p.m. Thursday in Schwab Auditorium, is recognized as one of the world's greatest violinists.

Her appearance here is sponsored by the Artists' Series and students may pick up their tickets beginning at 1 p.m. Friday (today) and continuing Saturday and Monday, and if tickets remain, on Thursday.

DEW Line Construction Discussion On Thursday

Major Charles S. Errickson, chief, Installations Support Section, Distant Early Warning Project Office, New York City, will discuss the engineering features of the U.S. Distant Early Warning Air Defense System (DEW Line) at 7 p.m., Thursday, Jan. 9 in Room 26, Mineral Science Building.

The talk will be given for the Penn State Student post of the Society of Military Engineers but is open to the general public.

Major Errickson has been connected with the construction of the air defense system since August, 1955. The newly completed \$600,000,000 arctic portion of the system, 3,000 miles in length along the northern rim of the continent, includes more than 50 radar surveillance stations. Construction features include the latest developments in electronics, man-made islands in the form of Texas towers, and construction under extreme climatic conditions of the arctic.

Senate Meeting Jan. 9

There will be a meeting of the University Senate, at 4:10 p.m. on Thursday, Jan. 9, in the assembly room of the Hetzel Union Building.

New Appointments Listed

Appointment of the following research associates was approved by the Board of Trustees at its recent meeting:

Janine and Joseph Lajzerowicz, husband and wife, in the X-Ray and Crystal Analysis Laboratory in the department of physics from Oct. 1, 1957 to June 30, 1958.

Dr. Sakutaro Hirokawa, also in the X-Ray Laboratory, from Nov. 1, 1957 to June 30, 1958.

Dr. Mehmet H. Binark, in engineering research from Oct. 1 to June 30, 1958.

Dr. Josephus F. G. M. Wintermans, in agricultural and biological chemistry, from Dec. 9, to June 30, 1958.

Dr. Giovanni P. Rutelli, director of the Institute of Electrical Communication Engineering and professor of electrical communication engineering at the University of Genoa, Italy, has been appointed visiting associate professor of electrical engineering, effective Feb. 1, 1958.

French Accepts UNICEF Post

Dr. Cyrus E. French, professor of animal nutrition, accepted a position with the United Nations Children's Fund, effective Jan. 1. He will be in charge of the Fund's expanded program of maternal and child nutrition in underdeveloped countries of the world.

A member of the department of animal nutrition since 1938, Dr. French is the author of many research publications in the physiology and biochemistry of nutrition.

Lockers Available For Faculty At Recreation Hall

Faculty members who wish to make use of locker facilities in Recreation Building are advised by Glenn N. Thiel, professor of physical education, that 25 additional lockers are available.

Persons interested should sign up for a locker with the towel room attendant at Rec Hall to obtain a key for the locker.

Pattee Library Has Rhodes Exhibit

An exhibit of selected books, paintings, and prints from the collection of Christina Wood Rhodes will continue until mid-January in the Pattee Library.

The items in the collection represent the interests of Mrs. Rhodes in the graphic arts, music, and literature. Each is personally inscribed by the artists or authors, including John Sloan, Harry Wickey, Henry Varnum Poor, S. J. Woolf, Luigi Lucioni, Gordon Grant, William Groppe, Raphael Soyser, Marian Anderson, Lotte Lehmann, Paul Robeson, Louise Homer, Roland Hayes, Thomas Mann, Carl Van Doren, and many others.

Autographed paintings and prints in particular reflect personal friendship with the artists.

Dr. Schweitzer Retires With Emeritus Rank

Dr. Paul H. Schweitzer, professor of engineering research who has been in charge of Diesel engine research since 1923, retired with emeritus rank on Jan. 1.

Holder of many patents for improvement of Diesel engines and world-renowned for his research, Dr. Schweitzer came to the United States in 1920 from Hungary and became a naturalized citizen in 1925. Trained in engineering in schools in Hungary and Germany, he saw service in World War I in the Austro-Hungarian Army. Since 1937 he has been a lieutenant commander in the U.S. Naval Reserve.

After positions in the De LaVergne Machine Co. and Oakland Motor Car Co., Dr. Schweitzer came to Penn State as assistant professor in 1923. He has traveled extensively in Europe and was a Fulbright Lecturer in Austria in 1953-54. He is the author of many technical articles and papers and of a book on Diesel engines. He has been a member of many technical societies.

Senate Minutes

Minutes of the Meeting of December 5, 1957

The University Senate met at 4:10 p.m. on Thursday, December 5, 1957 in the Assembly Room of the HUB with President Eric A. Walker presiding. The minutes of the November meeting were approved as printed in the Faculty Bulletin for November 15. One hundred thirty-seven senators signed the roll.

Communications From University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: H. M. Davison (L. C. Hunt), H. S. Brown (A. W. Wellington), B. A. Whisler (C. J. Smith), R. H. Wherry (R. D. Pashek), Hummel Fishburn (G. W. Henninger), A. J. G. Maw (G. O. Bressler), Joseph Marin (J. W. Breneman), N. R. Sparks (C. C. Dillio), A. W. VanderMeer (G. J. Free), G. K. Nelson (A. J. Mastro), and E. T. Williams (G. E. Keller).

New Senators

P. W. Bixby to serve for C. M. Long from July 1, 1957 to June 30, 1958, and W. A. Williams to serve for S. L. Land from September 1, 1957 to August 31, 1958 in the College of Education.

Reports of Standing Committees

D. H. McKinley, Chairman of the *Senate Committee on Admissions*, presented the report which had been distributed with the agenda as Appendix "A" and moved its adoption. The motion was seconded and passed. The recommended changes in Entrance Requirement for Two curriculums are as follows:

Liberal Arts — School of the Arts, Curriculum of The Arts: Change entrance requirements from letter group "A" to "F" to bring this curriculum into accord with the entrance requirements for majors in the Curriculum of Arts and Letters.

Mineral Industries — Two-Year Associate Degree Curriculum in Metallurgical Technology: Eliminate chemistry from the requirements for admission to this curriculum.

P. A. Shelley, Chairman of the *Senate Committee on Courses of Study*, presented the report which had been distributed with the agenda as Appendix "B" and stated that since another committee is working on a report to eliminate approval of courses for correspondence only, item 3 should be deleted from the report and item 4 should be numbered 3 and corresponding changes be made in the last paragraph. He moved the adoption of the report with these changes. The motion was seconded and passed. The recommendation on page one of the report is as follows:

In accordance with the spirit and the intent of the action by the Senate eliminating special approval of courses for offering by extension, the Committee on Courses of Study, with the endorsement of the Committee on Extension Policy, requests that each department or division initiate one of the following proposals with regard to existing courses which are approved for extension only or for extension and correspondence.

1. To drop such courses entirely.
2. To change authorization to the 900 series.
3. To recommend approval for resident instruction. Proposals of approval for resident instruction of courses heretofore approved for extension only or for extension and correspondence should be submitted on the regular forms and through the usual channels employed for proposals of new courses (See the "Standard Practices" of the Senate Committee on Courses of Study, issued October 30, 1957).

In addition, sponsoring departments and divisions are requested to eliminate all discrepancies in descriptions and credits in the cases of those courses heretofore approved for resident instruction and extension: there should be submitted a single description of not more than 20 words, similarly a single number of credits representing the maximum number to be carried by the course.

The Committee will in the near future furnish all departments and divisions with lists of courses for which any of the above actions may be in order. With the exception of proposals for approval of extension courses for resident instruction (see No. 3 above), all other proposals (Nos. 1 and 2) may be submitted to the Committee direct-

ly by letter. All proposals and recommendations should reach the Committee no later than February 10, 1958.

The complete report is on file in the office of the secretary.

Unfinished Business

J. A. Sauer, Chairman of the *Senate Committee on Rules*, moved the adoption of the recommendations which had been presented at the November meeting of the Senate, and which were printed on pages 884 and 885 of the official minutes. Joseph Jordan presented a proposed amendment which had been distributed with the agenda as Appendix "C" and moved its adoption. The motion as seconded follows:

It is proposed that the recommendation submitted on November 7 by J. A. Sauer be amended as follows: Under Article I, Section 1 of the Constitution "nine representatives elected by ballot by each College and the Graduate School for a period of three years, three (3) being elected each year," to "twelve" representatives elected by ballot by each College and the Graduate School for a period of three years, four (4) being elected each year."

In the discussion it was pointed out that elected senators and administrative senators would be more evenly divided; by increasing the number of elective senators it would be possible to have more faculty members take part in the Senate work; more of the younger staff members would be able to participate; the work of the Committee on Committees would be facilitated if there were more elected senators. One senator stated that the Senate needed not more elected members but proportional representation according to the enrollments in the Colleges. The motion on the amendment was passed. The motion to adopt the recommendations of the Rules Committee as amended was passed. The original motion carried with it the recommendation that these changes be made effective January 1, 1953. It was pointed out that since changes in the Constitution need the approval of the Board of Trustees it will not be possible to put these changes into effect until after the Board meeting late in January. Article I, Section 1 of the Constitution is amended to read:

The following shall be members of the University Senate: The President of the University, the Vice-Presidents of the University, the Deans of the several Colleges and the Graduate School, the Dean of Men, the Dean of Women, the Director of the Health Center, the Librarian, the Dean of Admissions and Registrar (Secretary), the Controller, the Director of General Extension, the Special Assistant to the President for Student Affairs, the Directors of Extension, the Directors of Research and the Associate and Assistant Deans in each of the Colleges and the Graduate School, the Dean of Summer Sessions, the Director of the Division of Counseling, the heads (or acting heads) of Schools, Divisions, and Departments of Resident Instruction, and twelve representatives elected by ballot by each College and the Graduate School for a period of three years, four (4) being elected each year. In case the head of a department is also the Dean of the College, that Department shall have a representative in addition to the Dean.

E. P. Nye, Chairman of the *Senate Committee on Student Affairs*, asked that recommendation number 2 of the report which had been tabled at the November meeting be removed from the table. He moved that the recommendation be adopted with the deletion of paragraphs "c" and "d" of item 5 on page 8. The motion was seconded and passed. The recommendation adopted reads:

That upon approval of (1), (adopted November 7, 1957), by the University Senate, the Secretary of the Senate distribute copies of the subcommittee report to each member of the Student Council of the several colleges, to each member of the several teaching faculties, to each dormitory counselor, to officers of each sorority and fraternity and to the Daily Collegian.

H. K. Schilling, Chairman of the *Senate Committee on Educational Policy*, presented the recommendation which had been distributed by mail and moved its adoption as a recommendation to the Board of Trustees, and that the Senate Committee on Rules edit it for inclusion in Section B-2 on page 2 of the policy for "Leave of Absence for Regular College Employees, effective June 1, 1953." The motion was seconded. The recommendation follows:

An academic employee who has served the University efficiently for a minimum of six years in a professional rank (Assistant Professor, Associate Professor, Professor) is entitled to a sabbatical leave of absence with pay.

Those who qualify shall be encouraged to take sabbatical leaves; in each individual

case, the period for which a leave is authorized shall serve the mutual interests of the employee and the University.

A leave of absence with salary is granted to academic administrators who have served the University efficiently for a minimum of six years.

R. W. Brewster moved the following amendment:

That each College shall establish a special committee to review applications for leaves and to recommend action to be taken by the deans.

The motion to amend was seconded and passed. O. R. MacKenzie moved that the motion concerning sabbatical leaves be tabled. The motion was seconded and lost. The motion to adopt the recommendation as amended was passed.

New Business

Mr. Nye, for the *Senate Committee on Student Affairs*, asked that students who are members of Senate Committees or subcommittees be extended the privilege of attending Senate meetings. Mr. Nye was asked to send this motion in writing to the secretary to be included with the next agenda.

The members were reminded of the Special Senate meeting on Thursday, December 12 at 7:30 p.m. in Room 121 Sparks Building. The next regular meeting of the Senate will be on January 9, 1958 at 4:10 p.m. in the Assembly Room of the HUB. The agenda will be distributed on December 19. The meeting adjourned at 4:59 p.m.

C. O. Williams
Secretary

Minutes of the Special Meeting on December 12, 1957

The University Senate met for a special meeting at 7:30 p.m. on Thursday, December 12, 1957 in Room 121 Sparks Building with President Eric A. Walker presiding. Substitutions for senators unable to be present were Lillian B. Larson for Ruth Ayres and J. J. Dixon for W. C. Fernelius. One hundred eighteen senators signed the roll and the room was well filled with visitors, including members of the Student Government Association.

The meeting was called at the request of the Senate Committee on Calendar as an information session.

President Walker opened the meeting with a brief statement about the necessity for intensive planning by the faculty for the anticipated increase in enrollment in 1960 and during the years that follow. He then turned the meeting over to the chairman of the Calendar Committee, F. M. Coombs, who presented the following speakers:

Vice-President for Development — C. S. Wyand, Long Range Plans

Vice-President for Academic Affairs — L. E. Dennis, The Current Calendar Practice

Professor B. A. Whisler, Physical Plant Utilization

Professor B. F. Howell, The Two-Semester-Plus-Extended-Summer Session System

Professor F. W. Peikert, The Quarter System

Professor D. H. McKinley, The Tri-mester System

Peter C. Fishburn, Student Representative, The Students' Viewpoint

Following these presentations 16 different members of the audience participated in the discussion which was spirited, cordial, and of an inquiring nature. It was apparent that the participants were aware of the necessity for systematic study of the problems that will arise as the University prepares to take care of its share of the increasing college age population.

The program for the meeting and summaries of the remarks of the speakers are on file in the office of the secretary. The meeting adjourned at 9:32 p.m.

C. O. Williams
Secretary

Research Assistant Named

Hartwig W. Kummer, graduate of the Technical University of Hannover, West Germany, has been appointed research assistant in mechanical engineering. He has been assigned to the Automobile Traffic Safety project, supervised by W. E. Meyer, professor of engineering research, and is working on the problem of non-skid brakes.

Items of Interest

Dr. William M. Lepley, Dr. George M. Guthrie, Dr. Douglas N. Jackson, Jr., and Dr. Lee B. Sechrest, all members of the department of psychology, have been appointed as consultants to the area medical director of the Trenton District of the Veterans Administration.

★ ★ ★

Viktor Lowenfeld, head of the department of art education, is the author of a volume titled "Die Kunst des Kindes" (The Art of the Child) which has been recently published by the Europäische Verlagstalt G.-M.B.H. in Frankfurt, Germany.

★ ★ ★

Five faculty members participated in the program of the meetings of the American Association for the Advancement of Science in Indianapolis recently, including Dr. Adam Anthony, associate professor of zoology; Dr. H. Seymour Fowler, associate professor of nature and science education; Dr. Edgar B. Hale, associate professor of animal behavior; Dr. Howard B. Sprague, head of the department of agronomy; and Christian K. Arnold, associate professor of engineering research and staff assistant to the President.

★ ★ ★

Dr. Dorothy Veon, professor of education, took part in a panel discussion on "A Pattern for Progress in Letter Writing" at the 22nd annual convention of the American Business Writing Association last week.

★ ★ ★

Two patents have been issued to Dr. Paul H. Schweitzer, professor of engineering research. They are for "Tandem Engine Compressors" and "Piston and Connecting Rod Assembly for Internal Combustion Engines."

★ ★ ★

Dr. A. W. Hussman, professor of engineering research, is co-author, with Dr. William A. Pullman, formerly visiting assistant professor of engineering research, of a paper on "Pressure Fluctuations in Multi-Cylinder Exhaust Manifolds" which was presented recently at the annual American Society of Mechanical Engineering meetings in New York.

★ ★ ★

Dr. G. K. Nelson, professor of accounting, led a two-day discussion on "Cost Control at the Plant Level" for the Harrisburg chapter of the National Association of Accountants recently.

★ ★ ★

Dr. June M. Collins, associate professor of clothing and textiles, chaired one session and presented a paper on "The Functions of Mourning Dress" at another in the 56th annual meeting of the American Anthropological Association in Chicago recently.

Eugene Goodwin, head of the School of Journalism, was recently initiated into the local chapter of Kappa Tau Alpha, national journalism scholastic society.

★ ★ ★

Norma Duff, instructor in hotel and institutional administration, has been appointed director of the Centre County Heart Association's Weight Control Clinic.

★ ★ ★

Dr. William C. Bramble, head of the department of forest management and in charge of the School of Forestry, has been appointed to the Pennsylvania Forest Industries Tree Farm Committee of the American Forest Products Industries, Inc.

★ ★ ★

Richard C. Maloney, associate dean of the College of the Liberal Arts, represented the University yesterday at the consecration of the new bishop of the Altoona-Johnstown diocese of the Roman Catholic Church, at Washington, D.C. The new bishop is the Most Reverend Howard Joseph Carroll, D.D.

★ ★ ★

Dr. O. F. Tuttle, chairman of the division of earth sciences, is conducting a research program on equilibrium studies in systems including natural and synthetic minerals under a \$5,000 grant from the Radio Corporation of America.

★ ★ ★

Thirteen members of the department of history attended the annual meetings of the American Historical Association, recently. They included Drs. Rayback, Klein, Pundt, Dahmus, Brown, DeNovo, McNall, Murray, Green, Colbourn, Pixton, Hassler, and Spence. The meetings were held in New York.



On Tuesday and Thursday, from 1 to 3 p.m., faculty members get a little exercise and relaxation at badminton in Rec Hall, in a program developed by Gene Bischoff. More participants are wanted so the program can be broadened.

Faculty Enjoys Recreation Program

For some faculty members, the period from 1 to 3 p.m. Tuesday or Thursday (or both days) is a period of comparative relaxation and mild physical exertion.

In these hours Eugen C. Bischoff, professor of physical education, has set up an informal program of athletics which, at the present time, occupies five badminton courts on one end of Recreation Building. Faculty members who are free at those hours are invited to come and enjoy themselves while getting something of a workout.

"We want to encourage more faculty

members to take advantage of this opportunity," Bischoff says. "We realize that there are many duties keeping some men away, but I feel sure that others will come when they realize that our activity can be enjoyable and helpful."

Bischoff has restricted the program to badminton for the present because of the relative irregularity with which faculty members can come. Some drop in midway through the period and take up where others leave off. Few are regular attendees. If more come, a more varied program can be planned.

New Policy Adopted On Scheduling Visiting Groups

Effective Jan. 1, arrangements for the use of University facilities by off-campus groups will be made through the Administrative Committee on Extension. The policy was approved by the Board of Trustees at its December Meeting.

The procedure is designed to insure optimum use of the resources and the most effective reception of visitors to the campus.

It will apply to all off-campus groups wishing to use University classroom, laboratory, dining hall, residence hall, and conference facilities. Groups using only the facilities of the Nittany Lion Inn are not affected.

Applications for use of the facilities must specify the name and function of the group, the purpose of the meeting, preferred meeting dates, and University facilities and personnel required.

The application will be approved if the subject matter of the meeting is within the competence of the University; if appropriate members of the faculty and staff participate in the planning and programming and, where feasible, in the actual instruction; if all net receipts of any project, program, or workshop accrue directly to the University; and if publicity and promotion bearing the name of the University is reviewed by the University before release.

The administrative head of the Conference Center (now T. Reed Ferguson, Ext. 2517) has been designated with the responsibility for the campus accommodation of all approved groups. He will set up the budget for the project and make necessary arrangements for meeting space, housing, and meals with the scheduling officer, director of housing, and director of food service.

Two Grants Aid Special Studies In Chemistry

Two research projects in chemistry, directed by Dr. W. C. Fernelius, head of the department of chemistry, are being aided by grants from the Atomic Energy Commission and the International Nickel Company, respectively.

The AEC has granted \$15,845 in renewing, for a one-year period, its support of a project titled, "Stabilities of Coordination Compounds", which was started in 1950. The work is directed toward thermodynamic stability studies of compounds which have an atom or ion surrounded by a number of other oppositely charged ions of neutral molecules.

The second study, started four years ago under grants by the Air Force, is being supported for the second year by the International Nickel Co. and is titled, "Coordination Polymers of Nickel." It involves the devising of method of incorporating metal ions in high polymers and testing the resulting properties.

Housing Changes Due To Be Made Next Semester

Six or seven of the ten Pollock Circle Halls now housing about 550 men students will be vacated at the close of the fall semester and Thompson Hall, used as residence halls for women students since 1950 will again house men students.

The changes are made possible by the completion of new women's halls—Cross, Cooper, and Hoyt — on College Ave. The 432 women students now in Thompson Hall will be moved to these new halls as well as other upperclass women's halls.

Students in Nittany and Pollock Halls will be moved into Thompson Hall and new students will fill the 300 vacancies in Nittany Halls, along with some from Pollock Circle. The Board of Trustees has already approved the removal of the Pollock Circle halls when they are vacated.

Soil Mapping Project Aided By Highways Dept. Grant

A research project directed by Harmer A. Weeden, associate professor of civil engineering, aimed at providing a soil mapping procedure to be used by highway engineers for planning or construction purposes, has received the support of a \$15,900 grant from the Pennsylvania Department of Highways.

State authorities, spurred by the prospect of an expanded highway program already begun by the Federal Government, hope to develop a satisfactory method of mapping the soils on which the new roads will be constructed. The Federal Bureau of Public Roads is participating in an advisory capacity in the project.

H. W. Higbee, professor of soil technology, and Dr. L. H. Lattman, assistant professor of geology, are cooperating in the project.

Construction Progress Noted

Interior work in the new residence halls for women is nearing completion and the three remaining units are expected to be ready for occupancy at the beginning of the spring semester. Five buildings have already been occupied.

Installation of equipment in Redifer Hall, central dining hall for the new units, has also begun.

Construction of footers and foundations for the addition to the Food Stores Building is also underway, with the completion of the caissons which will support columns in the building. The addition will greatly expand storage facilities and provide an enlarged bakery.

Work at the new men's residence halls on Park Ave. is also at that stage. The halls will provide accommodations for 1,144 students.

Contractors on the general storage building on the University farms are awaiting arrival of prefabricated upper walls and roof structure, expected before the end of the month, before proceeding with further masonry work.

Calendar

Saturday, Jan. 4

Varsity basketball, versus Rutgers, 8 p.m., Rec Hall.

Sunday, Jan. 5

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.
Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Eastern Orthodox Service of Worship, 10 a.m., Helen Eakin Eisenhower Chapel.
Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Mark C. Ebersole, professor of religion, Bucknell University.

Monday, Jan. 6

Faculty Luncheon Club, 12 noon, Dining Room "A", Hetzel Union Building. Robert Steele, All-University president, and Suzanne Smith, WSGA president, on "Student Government at Penn State."

Tuesday, Jan. 7

Physics Colloquium, 4:10 p.m., 117 Osmond Laboratory. Dr. Conyers Herring, Bell Telephone Labs, Murray Hill, N.J., on "Phonon-Drum Thermoelectric Effects."

Meeting of the American Society for Metals, 7:30 p.m., Mineral Sciences Auditorium. James Morris, head, combustion dynamics section, NACA, on "Metal Bearing Fuels."

Meeting of the faculty of the College of Business Administration, 4:10 p.m., 111 Bouckee Building.

Economics Seminar, 12 noon, dining room "A", Hetzel Union Building. Louis Dupree, associate professor of anthropology, on "Economic Functions of the Rite of Passage."

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel, with Dr. Rustum Roy, professor of geochemistry, in charge.

Wednesday, Jan. 8

Meeting of the Penn State chapter of the American Statistical Association, 5 p.m., 208 Willard Building. Dr. H. M. Davison, professor of educational research, on "Statistics in Test Construction." Also, annual election of officers.

Thursday, Jan. 9

Senate meeting, 4:10 p.m., assembly room, Hetzel Union Building.

Discussion on the U.S. Distant Early Warning System (DEW Line) by Major Charles S. Erickson before the Society of American Military Engineers meeting, 7 p.m., Room 26, Mineral Sciences Building.

Analytical Chemistry seminar, 1:10 p.m., Room 104 Osmond Lab. Dr. W. G. Braun, associate research professor of chemical engineering, on "Analytical Applications of Raman Spectroscopy."

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Lutheran Service of Worship.

Student Artists' Series, 8:30 p.m., Schwab Auditorium. Program by violinist Erica Morini.

Liberal Arts Research luncheon, 12 noon, dining room "A", Hetzel Union Building. Dr. Frederic Will, Jr., assistant professor of classical languages, on "What Are Literary Genres."

Friday, Jan. 10

Players production of "The Caine Mutiny Court Martial," 8 p.m., Center Stage.

Teacher Examinations To Be Administered Feb. 15

The National Teacher Examinations, prepared and administered annually by the Educational Testing Service, will be given on Saturday, Feb. 15, at the University and at 250 other testing centers throughout the country.

Applications for the tests must be filed with the Educational Testing Service, Princeton, N.J., before Jan. 17. A bulletin of information and an application form may be obtained from Dr. Hugh M. Davison, professor of educational research, Room 8, Burrows Building.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Calendar

Friday, Jan. 10

Meeting of the faculty of the College of Agriculture, 4:10 p.m., Room 109, Armsby Building.

Players production of "The Caine Mutiny Court Martial," 8 p.m., Center Stage.

Saturday, Jan. 11

Players production of "The Caine Mutiny Court Martial," 8 p.m., Center Stage. (Last night.)

Sunday, Jan. 12

Concert by the University Symphony Orchestra, Theodore Karhan conducting, 3 p.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. The Rev. Preston N. Williams, assistant University chaplain, in charge.

Monday, Jan. 13

Meeting of the faculty of the College of Physical Education and Athletics, 7 p.m., Room 241, Recreation Building.

Fall semester classes end, 5 p.m.

Tuesday, Jan. 14

Fall semester examination period begins, 8 a.m.

Wednesday, Jan. 15

Meeting of the Central Pennsylvania Section, Society for Industrial and Applied Mathematics, 7:30 p.m., Room 214, Willard Building. Dr. William R. Bennett, Bell Telephone Labs, on "Introduction to Noise Theory."

Meeting of the Senate Courses of Study Committee, 3 p.m., Room 229, Sparks Building.

Symphony Concert Sunday

The annual winter concert by the University Symphony Orchestra will be held Sunday, Jan. 12, at 3 p.m. in Schwab Auditorium.

Conducted by Theodore Karhan, associate professor of music and music education, the Orchestra will play the following program:

Overture to "Theodora" by Handel
Symphony No. 9 in C Major, by Franz Schubert

Prelude in E-Flat Minor, by Shostakovich

Fantasia Mexicana from "El Salon Mexico" by Aaron Copland.

In addition, Nan Gullo, of State College, will play the Aria in Classic Style for Harp and Strings by Marcel Grandjany on the harp.

Many Faculty Members To Aid In Farm Show Next Week

Faculty and staff members in many areas will participate next week in the Pennsylvania Farm Show at Harrisburg on Jan. 13 to 17.

Dr. Lyman E. Jackson, dean of the College of Agriculture, and Dr. H. R. Albrecht, associate dean and director of agricultural and home economics extension, both members of the Farm Show Commission, will head the Penn State delegation. H. R. McCulloch, assistant director of extension, is secretary of the Commission.

Many staff members will address various farm organizations, including the following:

Pennsylvania State Beekeepers Association—E. J. Anderson and W. W. Clarke.

Pennsylvania Christmas Tree Growers Association—Dr. William C. Bramble, L. P. Nichols, E. J. Udine, and Alvi O. Voight.

Pennsylvania Crop Improvement Association—Dr. Clarence S. Bryner and Dr. L. L. Huber. Frank G. Bamer will present the winners of the Five-Acre Corn Club contest.

Pennsylvania Dairymen's Association—J. S. Taylor and H.C. Gilmore. E. G. Hamill, Blair County agricultural agent, will preside at the banquet of this association.

Pennsylvania Society of Farm Women—Dr. Roy C. Buck. Hummell Fishburn and Frank Gullo will provide entertainment.

Pennsylvania Nut Growers Association—Henry Menusan and J. L. McCartney.

Pennsylvania State Poultry Federation—Dr. E. G. Buss, Dr. J. J. Reid, and Dr. Glenn O. Bressler. S. Glenn Ellenberger, Lehigh County Agent, will moderate a panel on poultry house equipment.

H. F. McFeely, extension exhibits specialist, will have charge of the University's Farm Show booth, featuring displays on consumer information.

Faculty, Staff Members Cited for Safety Work

Certificates of Merit were presented to six faculty and staff members for their service with the Safety Education for Public Schools Committee by Gov. George M. Leader.

They are: Dr. Frank I. Anthony, assistant professor of agricultural education, chairman of the committee; Joseph Intorre, associate in charge of driver training in the Institute of Public Safety; Viktor Lowenfeld, head of the department of art education; Dr. James H. Moyer, professor of education; Dr. David W. Russell, professor of education, and Victor R. Stephen, assistant in publications art.

The committee promoted safety through the art programs in the schools.

Certificates were also presented to Dr. Edward L. Mattil, associate professor of art education, and a group of State College children for their participation in a pilot project used to determine the effectiveness of the program.

SIAM To Hear Dr. Bennett At Meeting Wednesday

Dr. William R. Bennett, Bell Telephone Laboratories, will speak at the meeting of the Central Pennsylvania Section of the Society for Industrial and Applied Mathematics, at 7:30 p.m. on Wednesday, Jan. 15 in Room 214, Willard Building.

Class, Examination Schedules Listed

Fall semester classes will end this coming Monday, Jan. 13 and the examination period will begin on Tuesday, Jan. 14 at 8 a.m. The examination period will end at 5:30 p.m. on Wednesday, Jan. 22, with graduation exercises scheduled for Sunday, Jan. 26.

Because of the nature of the various holiday schedules, classes on Monday morning, Jan. 13, will be those normally held on Thursday morning. Those on Monday afternoon will be those usually held on Wednesday afternoon.

Summer Sessions Continues Growth

A 12 per cent increase in offerings, and a similar development in enrollment, indicates that many students find the summer months at Penn State desirable for study. But the future lies in a recognition that study in summer is more valuable than other activities.

FAR from being static, Penn State's Summer Sessions programs have shown steady expansion in the last number of years and, according to Dr. Palmer C. Weaver, dean of Summer Sessions, 1958 is expected to continue the trend.

In the 1953-1957 period, for example, the number of classes offered in the three sessions has increased by 12 per cent, and enrollment in approximately the same terms. Last summer, 883 classes (in about 450 different courses) were given, with an enrollment of 7,843.

These, and many other interesting facts gleaned from the Summer Sessions annual report, suggest that many graduate and undergraduate students find the main campus a desirable place to study during summer months.

The present 3-6-3 program of Summer Sessions was adopted to permit a flexible arrangement for undergraduates in relation to their vacation and work schedules; to make it possible for teachers and school administrators to begin work as early as their public school work would permit; and to permit veterans to fulfill the requirements of their educational programs.

The enrollment figure of 7,843 is the addition of enrollments in the three sessions. Some students, of course, enrolled in more than one session, so that the total number of individuals who attended one or more sessions was 5,042. They represented all colleges, with, as to be expected, the heaviest enrollment in the College of Education among graduate students but, surprisingly enough, the College of Engineering among undergraduates. Business Administration courses attracted many undergraduates also.

"For many years," Dr. Weaver says, "teachers and school administrators have made use of the summer program for advanced work and, to some extent, undergraduate work. For some, the course work leads to final certification, and for

others to advancement in their fields. We will probably always find this type of student wanting to come to Summer Sessions."

The heaviest enrollment, as is to be expected, comes in the six-weeks main session, when last year a total of 3,921 were in attendance. During intersession, the enrollment was 2,362 and in post session 1,570.

The course work offered leaned somewhat heavily to graduate work, although perhaps not as heavily as might be supposed. Classes in the 500, 600, and 610 series numbered 465; 214 were offered in 400 series; and 204 in the 100 to 300 series.

The faculty for these courses was largely of professorial rank, with 307 assistant, associate, or full professors of the regular faculty in charge. Instructors and assistants totalled 42, and visiting teachers of all ranks totalled 62.

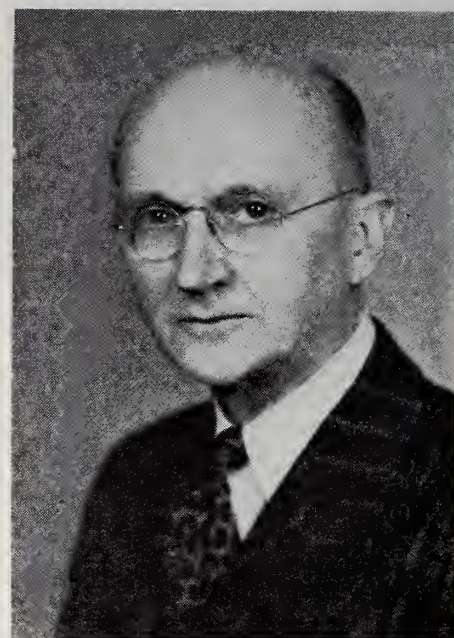
"Selection of courses to be taught and of the faculty to teach them are always made well in advance of the beginning of summer sessions," Dean Weaver points out.

"Through past experience, our office and the offices of the deans of the respective colleges are aware of the types of courses which are likely to attract enough students to warrant their inclusion in the program.

"Since Summer Sessions is self-supporting, except for the services of staff members on a 12-months contract, we must necessarily plan our course offerings in those areas in which we can expect a reasonable enrollment to pay the salaries of those who do the teaching.

"In the past several years we have made administrative changes to improve a situation in which a faculty member might have been expected to teach during the summer months, only to find at registration time that no students enrolled in the courses he was to teach.

"Consequently, we have made the



Dr. P. C. Weaver
Summer Sessions Grows

arrangement that when certain courses are approved for inclusion in the summer sessions program, staff members scheduled to offer such courses are assured of their salaries, with the understanding that a substitution in assignment may be made in the same way during the summer as it is in the academic year."

Penn State's summer program compares favorably, Dr. Weaver believes, with those of similar institutions, both in terms of the courses offered and in enrollments. Undoubtedly, he feels, we could offer more courses with good results.

"The key to a broader summer program," he says, "probably lies in an increased awareness on the part of the student, and his parents, that study during the summer months is a more far-sighted use of his time than those activities in which students now commonly engage in summer.

"When the awareness develops, the public will demand that we broaden our programs, not alone to use our facilities to the fullest, but also to give the student more educational opportunities than he now receives.

"Of most significance to all of us should be an interest in raising the level of educational achievements and in finding ways in which the student's intellectual accomplishments may be more rewarding both socially and economically."

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Faculty Reminded About Grade Reporting Deadline

Faculty members are reminded that fall semester grades for all students (including graduate students) who are to receive degrees at the January commencement exercises must be reported to the Recorder's Office, Room 4, Willard Building, not later than 9 a.m., Wednesday, Jan. 22.

A night and after-hour depository for grade cards has been installed in the southeast door, ground floor rear, of the Willard Building.

Grades for all other students must be reported to the same office within 48 hours after the final examination, or, in the case of research grades, not later than 5:30 p.m., Friday, Jan. 24.

The final examination period ends at 5:30 p.m., Wednesday, Jan. 22.

Eight Invited To Attend Governor's Conference

Eight members of the faculty and staff have been invited to participate in the Governor's Conference for the Improvement of Instruction in Harrisburg, Jan. 28 and 29. They include:

President Eric A. Walker; Dr. Grace M. Henderson, dean of the College of Home Economics; Dr. Arthur O. Lewis, Jr., associate professor of English literature; Dr. Florence E. Taylor, professor of elementary education; Dr. John R. Rackley, dean of the College of Education; Arthur M. Wellington, professor of counselor education; Lawrence E. Dennis, provost; and Ray V. Watkins, scheduling officer.

Library Schedule Listed

The Pattee Library will close at 5 p.m. Wednesday, Jan. 22 and maintain the following schedule until usual operations are resumed on Monday, Feb. 3:

Monday through Friday, 9 a.m. to 5 p.m.

Saturday, 9 a.m. to 12 noon.

Sunday, closed all day.

Noon Classes Scheduled On Experimental Basis

An experiment to determine the practicability of utilizing the noon hours for classes will be conducted next semester.

Some sections of Phys. Ed. 1,2,3, and 4 and possibly some sections of German 1 will be given at 12 noon, in the Monday, Wednesday, Friday sequence. Students will not be required to schedule these hours, although these are required courses for some students.

Students should not elect noon classes if they have an 11 a.m. class the same day. Lunch periods in the dining halls have been arranged so that students may eat before their classes.

The experiment is also being conducted to determine what problems, if any, will result in this schedule.

Summer Study In Europe Offered For Graduate Credit

The University is offering credit for a program of summer study in Paris, France, to be given from July 6 to August 3.

Dr. R. Wallace Brewster, professor of political science, is director of the tour, which will include three weeks of study in Paris and a field trip which will take the students to Geneva, Strasbourg, and Luxembourg. A free period of 12 days will follow the formal instruction period.

Graduate credit will be given to those who enroll in the Graduate School and take the course, Pol. Sci. 499, as usual graduate students. Undergraduate junior and senior students who have the necessary prerequisites are also permitted to enroll.

The program is titled "Summer Study in Paris," and is being offered in cooperation with the department of political science.

PLEASE NOTE

The Dean of Admissions invites attention to the corrected schedule for registration which appears on page 4 of this issue.

Case President To Give Commencement Address

Dr. T. Keith Glennan, president of Case Institute of Technology, will deliver the Commencement address on Sunday afternoon, Jan. 26.

A total of about 625 graduates will receive baccalaureate and advanced degrees. The program will begin at 2 p.m., with President Eric A. Walker conferring the degrees to about 480 candidates for bachelor, 7 associate, and 150 advanced degree candidates.

Dr. Glennan has been president of Case since 1947, except for a period from 1950 to 1952 when he was on leave to serve on the Atomic Energy Commission. He had previously been associated with the film industry and was director of the U. S. Navy Underwater Sound Laboratory of Columbia University.

Linguistics Course Added For Graduate Students

Principles of Linguistics, a one-year course intended for graduate students of widely different academic backgrounds rather than language majors, will be offered beginning in the spring semester.

Liberal Arts 500, conducted by Dr. Simon Belasco, associate professor of Romance languages, and Dr. Helen Adolf, professor of German, will be given next semester. In the fall, Liberal Arts 501 will be taught by Dr. Henry T. Hiz, assistant professor of mathematics, and Dr. Walter Coutu, professor of sociology.

The course has been devised because in recent years a broader consideration of language has evolved due to the expanding interaction of human activity with social and technological problems.

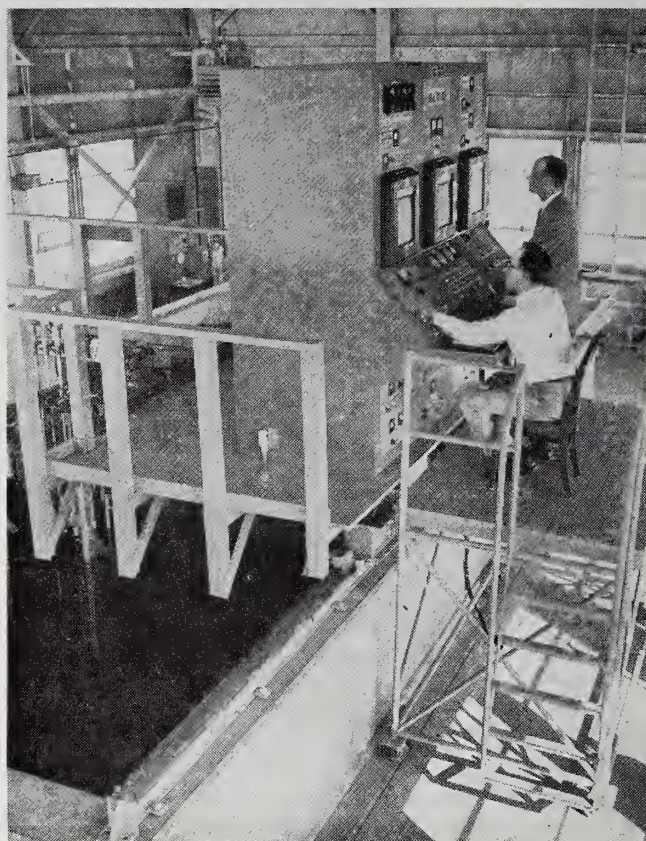
Rhodes Succumbs

Leland S. Rhodes, professor emeritus of civil engineering, died suddenly on Jan. 11. Appointed to the staff as assistant professor of civil engineering in 1919, he retired in 1955.

Penn State Collection.
Pattee Library.

Research Reactor Proves To Be Inexpensive Tool

Console of the Research Reactor is the control center for many uses to which the Reactor has been put in its 30 months of operation. Research faculty in a number of areas have found the facility helpful to their studies.



IN the short space of only a little over two years, Penn State's Research Reactor has well justified its construction for teaching and research purposes.

Built at the comparatively low cost of \$300,000 and opened for operation in the summer of 1955, the Reactor has already proved a boon to a number of faculty members doing research and has helped Penn State take a real position of leadership in the training of undergraduate and graduate students in nuclear science and engineering, as well as providing services for industry and for Atomic Energy Commission programs.

Dr. Lloyd A. Currie, assistant professor of chemistry, for example, has used the facility for studies of "hot atom" chemistry, shooting particles of tritium at molecules of pentane (a hydrocarbon). Through these studies, Dr. Currie hopes to provide more information regarding the breaking up of chemical mechanisms with hot atoms.

"The Reactor has certainly proved useful in these studies," Dr. Currie says, "even though other laboratories such as Brookhaven can give us what we want."

Dr. John A. Sauer, head of the department of physics, is working on a project titled "Effect of Radiation on Dynamic Properties of High Polymers." In this work, plastics such as nylon and polyethylene are irradiated in the Reactor, being bombarded by neutrons and gamma rays.

"We hope to learn something about the relationship between the macroscopic properties of the high polymers and the internal molecular structure," Dr. Sauer says. "Improvements of these

materials may well come about as a result of this type of study.

"Brookhaven also irradiates materials for us, but since the two reactors provide different ratios of neutrons and gamma rays, we are able to study the effects of two different types of radiations on our materials."

Dr. Thomas Bates, professor of mineralogy, has for a number of years been studying a technique of locating uranium in ore materials by use of a photographic emulsion technique. Samples of ore are irradiated and fission tracks appear on emulsion plates.

"We sent samples to Los Alamos for two years before the Reactor was built here," Dr. Bates says. "Aside from the fact that our Reactor is more convenient, it also operates at lower power and produces fewer gamma rays, which in our case only fogs the photographic plates and complicates our studies."

Dr. Andrew A. Benson, associate professor of agricultural and biological chemistry, uses the Reactor for studies related to certain metabolic intermediate compounds found in human and animal tissues. Through the use of chromatographs, compounds are separated. Then through the use of radioactive phosphorus, concentrations of the compounds can be studied. Clinical symptoms of diseases in humans or animals can be correlated to these concentrations.

"The techniques for making these studies in other ways," Dr. Benson says, "are extremely difficult. Certainly the existence of the Reactor on campus has helped us immeasurably."

Others who use the reactor facilities include Dr. Stuart Patton, associate

professor of dairy science, for studies in milk irradiation (using gamma rays); Dr. Rolf G. Winter, assistant professor of physics; for triton experiments and studies of delayed neutrons from Lithium-9; Dr. William W. Pratt, assistant professor of physics; Dr. Warren W. Miller, associate professor of chemistry; Dr. C. H. Blanchard, associate professor of physics; and Dr. Rustum Roy, professor of geochemistry, who has studied the effect of neutron radiation on the crystallographic structure of certain minerals.

Dr. Robert G. Cochran, who heads the Reactor staff, and his associates also carry on research studies and help industrial firms in their studies. Inland Testing Division of the Cook Electric Co., Haller Raymond and Brown (of State College), the Atomic Energy Division of Babcock and Wilcox, the AMP Company, and Curtiss-Wright have all made use of the Reactor.

"We also made a series of critical tests for a set of fuel elements for Babcock and Wilcox," Dr. Cochran points out. "These elements were then sent to Brazil for use in a research reactor being built there."

Teaching in many programs is an important function of the Reactor staff. Undergraduate and graduate courses (some of which now lead to a Master of Engineering degree) have developed rapidly, aided in part by grants from the Atomic Energy Commission which is encouraging this type of program in many colleges.

Students from foreign countries here under the International School of Nuclear Science and Engineering program

("Atoms for Peace") use the Reactor for a series of experiments.

Still a third type of educational program is the short courses of four to eight weeks for industrial and governmental scientists and engineers. This coming summer a program for training of staff members in technical institutes will be offered at the University, sponsored by the American Society for Engineering Education and the Atomic Energy Commission, to develop more teachers, and this program also will make use of Reactor facilities.

"Some of our staff members," Cochran points out, "are actually here under a training program for men in industry and government in this country and foreign countries. These are men who will eventually become reactor supervisors or directors of reactor facilities. From last year's staff, for example, Dr. Max Pullerman completed his work and returned to Germany to take charge of the Research Reactor Institute now being built in Munich."

Undoubtedly as time goes on many additional uses of the Reactor will be found, both by University staff members and by organizations off-campus. The fact that the Reactor staff "entertained" 3700 visitors last year shows the tremendous interest in this type of facility.

"It was designed," says Dr. Cochran, "as a research and teaching tool. It would appear that it will prove to be an inexpensive tool for all that it accomplishes."

Fringses To Aid Navy On Its Gooney Bird Problem

Dr. Hubert W. Frings, professor of zoology, and his wife, Mabel, who assists him in his research, will spend three weeks of January on Midway Island to assist the Navy with its gooney bird problem.

The gooney birds are a special problem to aviation on the island because they are so large and are quite fearless. They inhabit the island from November, when their eggs are laid, until June, when the young birds are ready to leave their nests.

Dr. Frings is world renowned for his research in birds, particularly for his studies of starlings and seagulls.

The initial work is expected to be largely of a survey nature, to study the birds and their habits and the conditions of the island related to the recording of bird calls. In his study on the starling problem, Dr. Frings learned that the distress call would frighten the starlings from the roosting places. In the studies on seagulls, he discovered the alarm call of the herring gull, when played on a tape recorder, was successful in frightening the birds.

The entire program may take years, since young gooney birds do not come back to their birthplace for five years after leaving the nest.

The work is being done at the request of the U. S. Office of Naval Research.

Items of Interest

Dr. Frederick R. Matson, assistant dean for research of the College of the Liberal Arts, presented a paper titled "Amarousion Potters at Work" and was a member of the council at the annual meeting of the Archaeological Institute of America in Washington, recently. He also addressed the Cleveland section of the American Ceramic Society last month on "Technological Aspects of Near Eastern Archaeology."

Dr. Gerald M. Moser, assistant professor of Romance languages, read a paper, "Brazilian Verse Epics in the Twentieth Century," at a meeting of the American Association of Teachers of Spanish and Portuguese on Dec. 26-29 at Dallas, Texas. He also served as a member of the executive council and as chairman of the Advisory and Nominating Committee of the Portuguese I section of the MLA.

Dr. Leon S. Roudiez, associate professor of Romance languages, attended a meeting of the American Association of Teachers of French on Dec. 27-28 at St. Louis, Mo., as managing editor of the *French Review* and as a member of the executive council.

Dr. Kenneth R. Beittel, assistant professor of art education, is the author of a paper, "Some Viewpoints on Research," appearing in the latest issue of the *Journal of the National Art Education Association*.

Dr. Merrill R. Fenske, director of the Petroleum Refining Laboratory, has been reappointed to the Subcommittee on Lubrication and Wear of the National Advisory Committee for Aeronautics.

Kenneth L. Holderman, assistant dean of the College of Engineering and Engineering Extension, will speak on "New Concepts in Technical Institute Education" at the 10th Annual College-Industry Conference at the University of Michigan on Jan. 20.

Dr. William H. Gray, professor of Latin-American history, is the author of an article, "The First Constitution of the Philippines," appearing in the *Pacific Historical Review*, the publication of the Pacific Coast branch of the American Historical Association.

Gilbert L. Crossley, assistant professor of electrical engineering, has been appointed assistant State MARS director for the Second U. S. Army. MARS is the Military Affiliate Radio System, an emergency network for use of the military in case of need for national disaster or other emergency.

Dr. Winston R. Weisman, associate professor of history of art and architecture, lectured at North Carolina State College this week at the invitation of the School of Design. He gave a formal talk on the "Origins of the Sky-scraper" and spoke informally to seminar groups.

Dr. James R. Bloom, assistant professor of plant pathology, was elected secretary of the Technical Committee of Northwestern Regional Project NE-34, "Biology and Control of Nematodes" recently.

Dr. Robert Pashek, associate professor of transportation, was appointed recently for a three-year term to the National Educational Committee of Delta Nu Alpha transportation fraternity.

Sociology Class To Be Televised Over WFBG

A unique television offering beginning next month will permit morning television viewers to "attend" classes along with Penn State students.

Next semester, at 9 a.m. on Monday, Wednesday and Friday, Dr. William G. Mather, professor and head of the department of sociology, will conduct his regular course in sociology via closed circuit television to his classes while also lecturing to viewers in the WFBG-TV (Altoona) area. The course has been taught via closed-circuit television three times previously.

Actually, only on Monday and Friday will the telecast of the classroom lecture be given over the WFBG facilities. On Wednesday, Dr. Mather will give a special lecture at 9 a.m. and conduct his regular class in the afternoon.

No academic credit is being offered to off-campus viewers except for a beginning sociology class at the Altoona Center. At the Center, Mrs. Anna Leopold, sociology instructor, will supervise the class and administer tests and lead discussions.

It is possible that other colleges in the station's viewing area may make arrangements for their students to take the course via television.

Latin American Educators In Study Of Methods Here

Nineteen Latin-American educators—from Costa Rica, Ecuador, Nicaragua, Panama, and Paraguay—are currently enrolled in a ten month program to learn American educational methods.

This is the second group in the program which is supported by the International Cooperation Administration.

The educators are studying the backgrounds of American education, curriculum materials, supervisory and administrative techniques, and other subjects in the field of educational theory and practice.

Dr. Joseph Allesandro, assistant professor of education, is the co-ordinator for the program, which is presented in Spanish.

Registration Schedule Shows Corrections

Registration for the spring semester will be held in Recreation Building on Jan. 29, 30, 31 and Feb. 1 according to the schedule shown below. This is a corrected schedule superseding a schedule previously printed and distributed.

Students will be admitted to Recreation Building only in accord with the alphabetical listing shown below:

Wednesday, January 29

Morning	Afternoon
8:00 Rif-Rol	1:00 Urc-Wap
8:15 Rom-Rou	1:15 Waq-Wat
8:30 Rov-Say	1:30 Wau-Wen
8:45 Saz-Sch	1:45 Weo-Wil
9:00 Sci-Sek	2:00 Wim-Wol
9:15 Sel-Sha	2:15 Wom-Yoc
9:30 Shb-Sid	2:30 Yod-Z
9:45 Sie-Sme	2:45 A-Ana
10:00 Smf-Sny	3:00 Aub-Aus
10:15 Snz-Sta	3:15 Aut-Ban
10:30 Sth-Sto	3:30 Bao-Bec
10:45 Stp-Svz	3:45 Bed-Ber
11:00 Swa-Tha	4:00 Bes-Biz
11:15 Thb-Tod	4:15 Bja-Bor
11:30 Toe-Urb	4:30 Bos-Bri

Thursday, January 30

Morning	Afternoon
8:00 Bri-Buc	1:00 Fpa-Ful
8:15 Bud-Cal	1:15 Fum-Gen
8:30 Cam-Cat	1:30 Geo-Goi
8:45 Cau-Civ	1:45 Goj-Gra
9:00 Caw-Col	2:00 Grb-Gro
9:15 Com-Coy	2:15 Grp-Ham
9:30 Coz-Czz	2:30 Han-Har
9:45 Daa-Dee	2:45 Has-Heg
10:00 Def-Din	3:00 Hah-Hic
10:15 Dio-Dra	3:15 Hid-Hok
10:30 Drb-Eco	3:30 Hol-How
10:45 Ecp-Eps	3:45 Hox-Irw
11:00 Ept-Far	4:00 Irx-Jod
11:15 Fas-Fis	4:15 Joe-Joy
11:30 Fit-Foz	

Friday, January 31

Morning	Afternoon
8:00 Joz-Kea	1:00 McN-Met
8:15 Keb-Kil	1:15 Meu-Mio
8:30 Kim-Koc	1:30 Mip-Moo
8:45 Kod-Kre	1:45 Mop-Mun
9:00 Krf-Lam	2:00 Muo-Nic
9:15 Lan-Lea	2:15 Nid-Ope
9:30 Leb-Lev	2:30 Closed Period
9:45 Lew-Loc	2:45 Opf-Pal
10:00 Closed Period	3:00 Pam-Pel
10:15 Lod-Lyt	3:15 Pem-Pob
10:30 Lyu-Map	3:30 Poc-Pot
10:45 Maq-Mas	3:45 Closed Period
11:00 Mat-McD	4:00 Pou-Reh
11:15 McE-McM	4:15 Rei-Rie

Brennan Edits Volume To Aid Shock Engineers

The first volume of "The Penn State Bibliography on Shock and Shock Excited Vibrations," edited by Dr. J. Norton Brennan, associate professor of engineering mechanics, has been published as an Engineering Research Bulletin of the College of Engineering and Architecture.

The 350-page work is an outgrowth of technical reports prepared for the U. S. Army Quartermaster Research and Engineering Command at Natick, Mass. The bibliography is expected to be of particular interest to shock and vibration engineers, especially those working on problems related to missiles, jet aircraft, torpedoes, and those studying problems of air-drop.

Dr. Brennan has been chief investigator since 1955 of a research project sponsored by the Command aimed at reducing the cost and increasing the efficiency of air-dropping military supplies. The contract was recently renewed with an additional grant of \$41,372, bringing the total grant to \$264,749.

Report from the Registrar

WITHDRAWALS (Campus)

- Adolfson, Ronald C., PM, Dec. 12
- Berliner, Sandra Joy, ELED, Dec. 12
- Leiden, John Henry, BA, Dec. 16
- Dillen, Albert LeRoy, Nov. 1
- Ertel, Sally Lee, Couns, Dec. 7
- Felman, David S., Coun, Dec. 16
- Gilson, Robert Gerald, Coun, Nov. 26
- Greenfield, Dolores C., MT, Nov. 27
- Halon, Maureen Mary, PhEd, Dec. 2
- Hornor, Herbert Ammon, BA, Nov. 27
- Klein, Sarah J., A&L, Nov. 27
- Maliszewski, Stanley R., Aero, Dec. 14
- Maurey, John R., Cer, Nov. 22
- Parnell, Leonard D., EE, Dec. 9
- Simmons, Donald Jerome, BA, Dec. 2
- Wildman, Robert Thayer, BA, Dec. 13
- Wood, Arthur Thomas, EE, Dec. 14
- Callenberger, Ronald W., ChE, Dec. 18
- Dummings, John D., Phys, Dec. 9
- Graybill, William Claude, CE, Dec. 17
- Kirby, Theophilus Paulding, BA, Nov. 25
- Koltosky, Shirley Ann, PhEd, Dec. 17
- Kurtik, Edward Frank, AroE, Dec. 9
- Adelman, Edwin, ME, Jan. 4
- Binstock, Leonard, Dec. 11
- Blair, John Charles, Coun, Dec. 18
- Budusky, Frank Charles, EE, Jan. 3
- Clement, Earl Raymond, Jr., 2yrAg, Jan. 6
- Cummings, John Deville, For, Nov. 11
- Egner, Frederick John, AroE, Jan. 7
- Harle, Fred A., Cons, Jan. 6
- Hammond, Harry Denfeld, AroE, Dec. 21
- Hendler, Lynn Judith, PhEd, Dec. 20
- Herzing, Frank Jay, SecEd, Dec. 16
- Hild, Robert D., Jr., Coun, Dec. 18
- Kovalovsky, Joseph F., IE, Jan. 4
- Kreeger, Clyde Leroy, Aero, Jan. 3
- Pierce, Donald Nute, Coun, Dec. 18
- Sauley, Edward Anthony, For, Jan. 3
- Schake, Arthur Lewis, CE, Dec. 6
- Schmerling, Esther M., Dec. 20
- Stovall, Jr., William Robert, Arch, Jan. 6
- Styler, Allan Robert, A&L, Jan. 3

WITHDRAWALS (University Centers)

- Mont Alto
- Albrecht, Edward Ernest, For, Dec. 19
 - Benedict, Edgar Wilson, For, Dec. 20
 - O'Donnell, Edward James, For, Dec. 20
- Bachelor Degree Program
- Chew, Rodger, Gordon, BA, Nov. 26
 - Schneider, Mitchell Jack, ME, Dec. 2
 - Baron, Kenneth A., BA, Dec. 9
 - Brunner, Robert J., EE, Dec. 10
 - Carter, Ralph James, ME, Dec. 7
 - Felde, David Victor, ME, Nov. 25
 - Humes, Thomas, ME, Dec. 7
 - Kling, Richard W., EE, Dec. 16
 - Leith, JoAnn, MT, Dec. 7
 - Mishkofski, Joseph Adam, Journ, Dec. 2
 - Zysleskie, Charles Raymond, Phys, Nov. 21
- Associate Degree Program
- Banash, Zachary P., DDT, Oct. 30
 - Hurite, Andrew, DDT, Oct. 18
 - Morisco, Joseph Michael, ET, Nov. 26
 - Obaza, Charles Robert, ET, Dec. 12
 - Summa, Anthony Robert, ET, Dec. 3
 - Hanlon, Maureen Mary, PhEd, Dec. 2
 - Imbody, Bruce Henry, DT, Nov. 18
 - Kelly, James A., ET, Dec. 7
 - Smay, Robert Ernest, Jr., ET, Dec. 10
 - Welsh, William Thomas, ET, Oct. 16

CHANGE OF NAMES

Cerrito, Barbara Louise from Kester, Barbara Louise
Pifer, Sara Jane from Garbrick, Sara Jane

HUB Hours Announced

The Terrace Room cafeteria at the Hetzel Union Building will continue normal operations in the period between semesters, but the Lions Den will be closed on Jan. 25, 26, and 27, and operate from only 7:15 a.m. to 2 p.m. on Jan. 22, 23, 24, 28 and 29.

The other operations in the HUB will function from 8 a.m. to 8 p.m. from Jan. 24 to 27 and resume normal schedule on Jan. 28.

Calendar

Tuesday, Jan. 21

Physics Colloquium, 4:10 p.m., 117 Osmond.
Dr. Edwin R. Fitzgerald, associate professor of physics, on "Mechanical Resonance Dispersion in Solids at Audio Frequencies."
AIEE-IRE meeting, 7:15 p.m., Room 3, Electrical Engineering, Thomas J. Enright, supervising engineer, Franklin Institute Laboratory for Research and Development, on "The AC Network Calculator," latest addition to the University's computer facilities.

Wednesday, Jan. 22

Fall semester examinations end, 5:30 p.m.

Sunday, Jan. 25

Combined Baccalaureate-Commencement Service, 2 p.m. Address by Dr. T. Keith Glennan, president, Case Institute of Technology.

DuPont Grants Provide For Teaching, Research

Three grants for research or teaching have been made to the University by the DuPont Company as part of its \$1,150,000 program of aid to some 135 universities.

One grant is for a postgraduate assistantship in chemistry, for a graduate student with two years experience as a part-time teaching assistant. He will receive \$2,400 for the third year with an additional allowance of \$600 if he has children. The University receives \$500 and payment of tuition and fees.

A second grant is for a \$1500 summer research grant which provides a younger staff member in either chemistry or chemical engineering with support for summer research.

The third grant is awarded for a postgraduate fellowship in mechanical engineering, providing \$1800 for the student, plus an allowance of \$300 if the student has one child and \$600 if he has two or more.

Pixton Goes To Ogontz Post

Dr. John E. Pixton, assistant professor of history, has been named assistant administrative head of the Ogontz Center.

A member of the faculty since 1954, Dr. Pixton came to Penn State from Northwestern University, where he was a research associate in the Graduate School of Business Administration. Prior to that he had been an instructor in business history at Northwestern.

Alumni Association Lists 53,766 On Roles

A recent survey by the Penn State Alumni Association reveals that it has a total of 53,766 active addresses for alumni on file. Of this number, 48,114 have received bachelor degrees or are non-graduates, and 5,652 are holders of advanced degrees.

Half of the total have been added to the files since 1946. The largest class is 1950, with 2,872 alumni listed. As of Oct. 17, 1957, 14,071 alumni are paid members of the Association, with 5,541 as life members.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

President To Talk To Faculty Feb. 6

President Eric A. Walker will address a meeting of the faculty in Schwab Auditorium at 4:10 p.m., Thursday, Feb. 6. He will review the report of the Administrative Committee on Long-Range Development, "Penn State's Future: The Job and a Way To Do It," recently presented to the Board of Trustees.

Eiche Named President Of Junior College Council

Robert E. Eiche, administrative head of the Altoona Center has been elected president of the Junior College Council of the Middle Atlantic States for 1958 and 1959.

More than 60 junior colleges with an enrollment of 24,000 students in Pennsylvania, New York, New Jersey, Delaware, Maryland, and the District of Columbia comprise the Council.

Art Exhibit Opens Today

An exhibition of eight paintings of contemporary nature, arranged as a tribute to Sidney Janis, noted collector of modern art, will open today and continue through Feb. 24 at the Hetzel Union Building gallery.

The works are by Joseph Albers, William de Koonig, Arshile Gorky, Philip Guston, Franz Kline, Robert Motherwell, Jackson Pollock, and Mark Rothko.

Ski Movie Scheduled

Ski enthusiasts, as well as those who merely like to see others performing, will be interested in a 1½-hour movie titled "Anyone for Skiing" to be shown on Thursday, Feb. 13, in Schwab Auditorium, at 8 p.m. The movie is sponsored by the Penn State Outing Club.

Included are scenes at many of the best ski resorts, action shots of many well known skiers, and views of unusual events. Tickets are available at the HUB desk, and at two stores in town.

AAUP Meeting Feb. 10 To Discuss ROTC

Spring semester activities of the local chapter of the AAUP will get underway on Monday, Feb. 10 with a panel discussion on "The Place of ROTC in University Instruction."

Brice Harris, professor of English literature, will moderate the panel which will consist of Howard Cutler, head of the department of economics; Neal Riemer, associate professor of political science; Col. O. H. Rigley, Jr., head of the department of air science; and Earl B. Stavely, associate dean of the College of Engineering and Architecture.

The meeting will be held at 8 p.m. in the Mineral Sciences Auditorium.

Other meetings will be held on Mar. 17 and April 21. The annual faculty-trustee dinner will be held on Thursday, Mar. 27.

Avery Painting Given For Permanent Collection

A painting titled "Pitcher Painter" by the noted contemporary American artist Milton Avery has been presented to the University by Mr. and Mrs. Roy R. Neuberger, of New York.

The painting, considered typical of Avery's work, is now hanging in the gallery of the Hetzel Union Building. Avery is considered one of the most delicate colorists and perceptive designers working today.

Students Begin Flight Instruction At Air Strip

The first instruction under the flight training program for Air Force and Army ROTC students has begun at the new air strip on the University farms north of the main campus.

Twenty-two seniors in the Air Force program and three seniors in the Army program have enrolled for the training, which was authorized by Congress two years ago in certain colleges and universities.

The program provides 36½ hours of training in light aircraft.

dePaur Gala Featured Sunday In Rec Hall

The de Paur Gala, with a company of 55, including an orchestra of 25, will present the next program on the Artists' Series on Sunday, Feb. 2, at 8:30 p.m. in Recreation Building.

Tickets for the general public are available today at the Hetzel Union Building desk. They are \$1.

The program will be a varied presentation which includes music from Kurt Weill's "Lost in the Stars," the Carl Orff cantata "Carmina Burana" and, in concert form, George Kleinsinger's and Joe Darion's little opera "archy and mehitabel." Inez Matthews and McHenry Boatwright are featured soloists.

Players To Present Five Productions In Spring

The Penn State Players will present five major productions during the Spring Semester.

At Center Stage, three plays will be presented in arena-style with "Burning Bright," by John Steinbeck, opening on Feb. 14 at 8 p.m. It will continue each Friday and Saturday through February.

The world premiere of "Boy on a Beach," by Violet Welles, will follow at Center Stage beginning on Mar. 7 and continuing through April 12. Kelly Yeaton, associate professor of theatre arts, will direct the production.

The third play is "Tonight at 8:30," by Noel Coward, which will run from April 18 to May 24. Robert D. Reifsnider, associate professor of theatre arts will direct.

In Schwab Auditorium during the Mother's Day Weekend, May 8 to 10, Players will present Shakespeare's "Merchant of Venice," with Warren S. Smith, also associate professor of theatre arts, as director.

Jean Anouilh's "Ring 'Round the Moon" will be presented as a thesis production in the Little Theatre in Old Main at 8 p.m. Mar. 4, 5, and 6.

Senate Minutes

Minutes of the Meeting of January 9, 1958

The University Senate met at 4:10 p.m. on Thursday, January 9, 1958 in the Assembly Room of the HUB with President Eric A. Walker presiding.

The secretary announced that a new procedure was being tried for taking the roll at this meeting. A 3 x 5 card was distributed to each member to be signed and left at the door at the close of the meeting. One hundred thirty-eight senators signed the roll.

The minutes of the December 5, 1957 and December 12, 1957 meetings were printed in the Faculty Bulletin for January 3, 1958. The secretary stated that it had been called to his attention that the minutes were incorrect in reporting the action of the Senate on the amendment to the Senate Constitution, inasmuch as a two-thirds vote was not registered. He stated the minutes would be corrected to read: "On the motion to adopt the recommendations of the Rules Committee as amended, no valid vote was registered."

President Walker stated that he had asked the secretary to make this correction and had asked J. A. Sauer to reintroduce the motion as amended at this meeting under "Old Business".

President Walker announced that he had asked R. T. Oliver to serve as parliamentarian of the Senate and that for this meeting he had selected F. B. Krauss and G. K. Gillan to serve as tellers.

Also with reference to the minutes for the December 5 meeting the secretary read the following communication from M. A. Williamson, Dean of the College of Engineering and Architecture:

Without, in any way, questioning the desirability of the recommendation by the Committee on Educational Policy, we do contest the authority of the Senate to do more than recommend to the President changes in policy on sabbatical leaves, on the grounds that the Senate's authority does not extend to the area of fiscal policy which is intimately involved in executing such action. It therefore, in our opinion, should have been passed as a recommendation to the President as an expression of the Senators' wishes, not a legislative act binding upon the President if approved by the Trustees.

We similarly contest the authority of the Senate to legislate "that each College shall establish a special committee to review applications for leaves of absence and to recommend action to be taken by the Deans" on the grounds that this is a procedural matter appropriate to administration and not a policy matter coming within the scope of the Senate functions.

The President recommended that the minutes remain as they were published. His comment was that he was reluctant to speak during the meeting as he did not want anyone to think he was not in favor of the broadening of the program of sabbatical leaves. He would have preferred that this be a recommendation to the President, although he would not deny the right of the Senate to send a recommendation to the Board of Trustees. He questioned whether a Senate Committee should attempt to re-write an administrative policy. The Brewster amendment relates to a completely administrative matter within the Colleges. The President stated that he would pass the recommendation on to the Board and that he would support the broadening of the sabbatical leave policy. M. A. Williamson moved that the minutes be approved as corrected. The motion was seconded and passed.

Communications from University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: Ben Euwema (Deborah Austin), E. R. Queer (E. R. McLaughlin), H. W. Higbee (C. D. Jeffries), N. R. Sparks (E. E. Ambrosius), B. A. Whisler (C. J. Smith), F. W. Peikert (J. E. Nicholas), E. P. Strong (W. E. Hurley), R. E. Swope (A. J. Luedke), L. P. Guest (E. V. Mech), Ossian MacKenzie (W. M. Hench), G. K. Nelson (A. J. Mastro), and W. W. Miller (L. A. Currie).

New Senators

From the College of the Liberal Arts, M. A. Mook for the Fall Semester 1957, Kent Forster for the Spring Semester 1958, and R. W. Brewster and A. G. Pundt for the 1957-1959 term.

Reports of Standing Committees

A. W. Hutchison, Chairman of the Senate Committee on Extension Policy, presented an amendment to the report as presented at the

October meeting which had been distributed with the agenda as Appendix "A", and moved its adoption. The motion was seconded and passed. The recommendation is as follows:

The Senate Committee on Extension Policy recommends that the action of the Senate of October 10, 1957, relative to the approval of College-credit courses for off-campus offering, be amended to include courses given by correspondence.

The following statement is proposed for consideration by the Senate in place of recommendation 1 of the previously adopted report.

Any College-credit course approved by the Senate may, at the discretion of the department offering the course, be given off-campus or by correspondence, subject to the same type of University control which operates for on-campus courses. As a consequence of this the Senate no longer need give specific approval for courses for extension and correspondence and the symbols "X" and "C" should be dropped from course designations.

If favorable action is taken on the above proposal, recommendation 2 of the report as adopted October 10, 1957 should be modified to provide that correspondence study credits be identified on student transcripts and registration records other than by the symbol "C" attached to the course number designation.

P. A. Shelley, Chairman of the Senate Committee on Courses of Study, presented the report which had been distributed in two sections. Section I with the agenda as Appendix "B" and Section II distributed a few days later. Mr. Shelley called attention to the item on page one of Section I which implements the recommendation of the Senate Committee on Extension Policy which had just been passed by the Senate. Mr. Shelley also called attention to page one of Section II recommending approval of Com 58 for a period of three years subject to review by the Committee during the first semester of the academic year 1960-1961. He pointed out that this statement should also be included in the new course I E 513. He moved the adoption of the report with the additional statement being added to I E 513. The motion was seconded. There was discussion as to why the jurisdiction for the courses L A 20 and 21 was changed from the College of the Liberal Arts to the Office of the Vice President for Academic Affairs. The motion to adopt the report of the Committee was passed. The report is on file in the office of the secretary.

E. P. Nye, Chairman of the Senate Committee on Student Affairs, presented the report which had been distributed with the agenda as Appendix "C" and moved its adoption. The proposal

That the University Senate extend to all student members of its standing committees and subcommittees an invitation to attend the meetings of the Senate for the balance of this academic year was seconded and passed.

J. F. Bradley, Chairman of the Senate Committee on Scholarships and Awards, moved the ratification of the report which had been distributed at the meeting, and which had been approved by President Walker. The motion was seconded and passed. Mr. Bradley stated that 182 applications had been received by the Committee and that 97 applicants had been interviewed. The Committee had used three criteria in making their selections; scholarship, need, and activities. The 79 persons selected to receive the awards are as follows:

John W. White Scholarships

Sassano, Audrey A. '58 of Pittsburgh \$200 (PH ED)

Young, Fred D. '59 of Marianna \$150 (ENG SC)

Byers, David C. '60 of Tididote \$100 (PHYS)

Louise Carnegie Scholarships (\$75 each)

Thomas, Eugene '58 of Erie (BUS AD)

Chamberlain, Richard L. '58 of Orangeville (HORT)

Thierwechter, Marie E. '58 of Lebanon (H EC)

Breon, Helen L. '58 of State College (ED)

Hutchinson, Lawrence J. '59 of Thornton (P V)

Detwiler, Ruth A. '59 of Hatboro (ED)

Canick, Paul M. '59 of Bellefonte (ENG SC)

Megahan, Donald B. '59 of Meadville (P N G)

DuRoss, Darla A. '60 of Forty Fort (ED)

VanBremen, Lee '60 of Belle Vernon (A & L)

Schaefer, William '60 of Fairview Park (CH E)

Wonders, Barbara '60 of Pottsville (ED)

Class of 1921 Memorial Scholarships (\$200 each)

Kerlin, Roger L. '60 of Altoona (PHYS)
Ebert, Joanne G. '60 of Hegins (PSY)
Bennett, James P. '58 of Marianna (A & L)
Horst, Robert L. '58 of Rothsville (E E)
Thrush, Walter W. '59 of Endeavor (I E)

General Scholarships (\$150 each)

Ripsom, George A. '60 of Weatherly (E E)

Wernham, Evelyn I. '60 of State College (ZOO)

Gibboney, Richard H. '60 of Belleville (BUS AD)

Haugh, Clarence G. '58 of Madisonburg (AG E)

Adomshick, Charles T. '59 of Freeland (E E)

Brosius, Earl E. '59 of Northumberland (A & L)

Moeller, Guido '59 of Philadelphia (PHYS)

Irzinski, Edward P. '60 of Wilkes-Barre (M E)

1920 Class Scholarships (\$100 each)

Kester, James D. '58 of Osceola Mills (BUS AD)

Heacox, Richard A. '53 of Derry (MET)

Patyk, Daniel G. '53 of Plymouth (E E)

Harrison, Mary M. '58 of Lansdowne (ED)

Brewer, David M. '59 of Norristown (ENG SC)

Frymoyer, Edward M. '59 of Sunbury (ENG SC)

Kelly, John R. '59 of Cresson (E E)

Class of 1922 Memorial Scholarships (\$100 each)

Bernhard, Evelyn E. '60 of Erie (ED)

Jablonski, Lorraine L. '59 of West Nanticoke (H EC)

Reinhard, Ronald J. '60 of Coopersburg (P M)

Bickel, Arleen J. '60 of Ottsville (ED)

Yeschka, Constance A. '58 of McKees Rocks (A & L)

Robbins, James E. '58 of New Cumberland (E E)

Avigliano, John A. '59 of Freeland (MUS ED)

Orlowek, Doris G. '60 of Easton (ED)

Borek, Helen L. '60 of Linesville (MUS ED)

Slusser, Nancy J. '60 of Littlestown (H EC)

Starkey, Arlene H. '60 of Pittsburgh (CONSV)

Mary Thompson Dale Memorial Scholarship (\$100)

Hillman, Lynda B. '60 of Lemont (ED)

Lawrence J. Ostermayer Memorial Scholarships (\$100 each)

Faust, David W. '58 of Harrisburg (ED)

Jaeger, John E. '59 of Union, N.J. (ED)

Bodnar, Sandra M. '60 of Philadelphia (A & L)

Huth, Hans J. '59 of Jenkintown (M E)

Trost, Joseph C. '59 of Philadelphia (ENG SC)

Hindman, Constance '59 of Butler (H A)

Sanders, Ann L. '58 of Scranton (PSY)

Beebe, Alice M. '59 of Scranton (H EC)

White, Anna L. '60 of Mercer (H EC)

Hughes, Harold L. '60 of Reading (ENG SC)

Slagle, Robert E. '58 of Rimersburg (FOR)

Thompson, Judith E. '59 of Curwensville (A & L)

Ward, Mary L. '59 of Paoli (JOURN)

Marcus, Leonard '59 of Philadelphia (P V)

Garner-Rothrock Memorial Scholarship (\$150)

Beam, John P. '60 of Port Matilda (PHYS)

Alpha Phi Omega Scholarship (\$200)

Gantzler, Gary L. '60 of York (ENG SC)

Lieutenant Harry Edward Wagner Scholarships (\$100)

Eberhardt, John J. '59 of Philadelphia (ED)

Moyer, Robert D. '60 of Allentown (ENG SC)

Warfield, Mervin L. '60 of Pottsville (ED)

Helen Wood Morris Scholarships (\$62.50 each)

McCurdy, Margaret D. '60 of Hatboro (ED)

Herbein, Mary K. '59 of Oley (PH ED)

Vance C. McCormick Scholarship (\$150)

Ahlquist, Marian S. '60 of Newcastle (ED)

Ethel and Bayard Kunkle Scholarships (\$250)

Anderson, Rita M. '60 of Erie (JOURN)

Wall, John V. '59 of N. Wales (ED)

Kowalski, Lawrence T. '58 of Hazleton (A & L)

Braund, Ruth E. '60 of Sayre (ED)

Veselovsky, Lawrence '58 of E. Vandergrift (ENG SC)

Artz, Mahlon R. '59 of Pottsville (E E)

Espy Scholarship (\$150)

Schnabel, John H. '60 of Spangler (CH E)

Class of 1941 Scholarships (\$125 each)

Werner, Nancy J. '60 of Cleona (BUS AD)
Yeatts, Frank R. '58 of Altoona (PHYS)

Aluminum Company of America Scholarship (\$500)

Motsay, George '59 of Carbondale (P M)
F. M. Coombs, Chairman of the Senate Committee on Calendar, presented the following progress report:

The Senate Committee on Calendar appreciated the interest of Senate members as represented by their attendance at the Special Meeting of the Senate on Calendar problems last month.

The Committee recognizes that any major revision in Calendar policy, if one should be recommended, cannot be made effective before 1961. That in this interim, departments consider providing a 9 to 12 weeks summer program as is now possible under the present summer sessions system.

Prior to making a report to the Senate on long range Calendar policy the Committee is waiting for the results of the Student Opinion Survey, directed by Peter C. Fishburn, student representative on the Calendar Committee.

Also, the Committee is on call to meet with the special subcommittee on University Calendar and Class Schedule of the Trustee Committee on Instruction.

The Calendar Committee will have a more comprehensive report for the Senate at a later date.

F. M. Coombs, Chairman Unfinished Business

J. A. Sauer, Chairman of the Senate Committee on Rules, moved the adoption of the report of the Committee as presented at the December 5 meeting of the Senate and amended at that meeting by the Jordan motion. The motion was seconded and the vote reported to the President by the tellers was: Yes 110, No. 23, Abstentions 0, Non-voting 5. There being a two-thirds majority the motion to amend the Senate Constitution was passed. Article I, Section 1, of the Constitution as amended was printed on page 890 of the official minutes for December 5, 1957.

Comments and Recommendations for the Good of the University

D. H. McKinley announced Fall Semester Graduation Exercises for Sunday, January 26 at 2 p.m. and invited the members of the faculty to be present at 1:40 p.m.

President Walker stated that a document that has been called the "Book of Revelations", a study of the future of Penn State as requested by the Board of Trustees, would be presented to him this week-end. If and when the Board accepts this document it will be distributed to the deans, as it will stake out the boundaries of the University in 1970. The preparation of descriptions of the boundaries for the Colleges during that period constitutes an important job for each of the Colleges.

The next regular meeting of the Senate will be on February 6, 1958 at 4:10 p.m. in the Assembly Room of the HUB. The agenda will be distributed on January 23, 1958.

The meeting adjourned at 4:54 p.m.
C. O. Williams
Secretary

Mary Brown Allgood Honored By Finns

Mary Brown Allgood, chairman of the division of commercial consumer services, has been awarded a bronze medal by the University of Helsinki for her services to the University.

Miss Allgood lectured in Finland during the academic year 1956-57 as a Fulbright Scholar.

The medal, about three inches in diameter, shows the symbol of education and a replica of the University on one side and the seal of the University on the other.

Exhibit At Library

An exhibit relating to military instruction at the University is now on display in the main floor cases of the Pattee Library. The exhibit, which will continue for a month, includes parts of uniforms and decorations worn by ROTC cadets at various times in the history of military instruction.

Evans Grant Supports Research Lab Studies

A \$5,000 grant for a five-year period has been made by the T. M. Evans Foundation to support research at the Southwestern Field Research Laboratory in Westmoreland County.

Work at the newly organized station has been mainly concerned with forage crops, to date. The Evans grant is one of a series of gifts from industries and other organizations in southwestern Pennsylvania.

Grant Aids High School Science Teacher Program

A grant to the University by the National Science Foundation will aid some enrollees in the fourth annual Institute for High School Teachers of Science to be held on campus from June 30 to Aug. 9.

The stipends and allowances may amount to as much as \$983, including \$450 to cover housing and living expenses, dependency allowances, travel, and fees of \$93 covering the six credits of the course. Additional allowances and fees may be available through Pennsylvania industries.

All senior and junior high school teachers in the United States and territories are eligible to apply for the six-week institute. Preference will be given to in-service teachers who have had a minimum of three years' teaching experience, who intend making teaching their career, and who will have a number of years of service before them.

Missiles Work Offered

Work in the mechanics of missiles, designed to help meet the current need for more engineers trained in missiles, will be offered this semester by the department of engineering mechanics under Eng. Mchs. 404, a three credit course.

Dr. George U. Oppel, professor of engineering mechanics, who served as a consultant on missiles for the German government during World War II, will teach the course. He joined the faculty last year.

Prerequisites for the course are Eng. Mchs. 11, 12, 13 and 14.

Fellowships In Home Ec Provided By General Foods

Two graduate fellowships in home economics, provided by a grant from The General Foods Fund, Inc., will be offered for the second successive year, in 1958-59.

The fellowships, each providing \$3,000, are available toward a master of science, master of education, doctor of philosophy, or doctor of education degree in the various fields of study in home economics. Penn State is one of 12 universities in the program.

Applications must be received by Mar. 15.

Report from the Registrar

WITHDRAWALS (Campus)

- 6 Caplan, Sheldon L., Journ, Dec. 16
- 3 Davis, Brian Wilson, Coun, Jan. 9
- 3 Dawson, MaryAnne Eliz., BA, Jan. 9
- 5 Doak, William McCully, For, Dec. 21
- 2 Fisher, Britton A., Coun, Jan. 10
- 2 Graham, Meade Lewis, Met, Nov. 25
- 3 Heimbach, Paul Joseph, Coun, Jan. 8
- 1 Kenney, Patricia Mary, BusEd, Jan. 8
- 3 Maisel, John B., Phys, Jan. 6
- 1 Polis, Donald, CE, Nov. 18
- 3 Raichle, William R., For, Jan. 7
- 1 Rhoad, Thomas J., A&L, Nov. 8
- 1 Seip, Walter Rinehart, For, Jan. 9
- Sp Wagner, Phyllis M., Nov. 26
- 1 Wampler, LeRoy Samuel, AeroE, Jan. 10
- 1 Waugh, Lorna J., Coun, Dec. 21
- 1 Byrne, Jr., John Patrick, ME, Jan. 13
- 1 Cossel, Vincent E., ChE, Jan. 13
- 1 Gates, Patrick, IE, Dec. 16
- 8 Munz, Frank Gordon, ME, Jan. 13
- 1 Patterson, Alan David, Geog, Jan. 9
- 3 Renwick, Kenneth James, AeroE, Dec. 12
- 1 Yatsko, Charles S., GG, Jan. 10
- 3 Yourishin, John R., ChE, Jan. 10

WITHDRAWALS (University Centers)

- Mont Alto*
 - 1 Bremer, W. Gerald, For, Jan. 10
 - 1 Miller, Douglass Ellwood, For, Jan. 10
 - 1 Wilkinson, John William, For, Jan. 13
 - Bachelor Degree Program*
 - 1 Homan, Mike, BA, Dec. 21
 - 1 Merritt, James Shirley, A&L, Jan. 3
 - 1 Morton, John Francis, BA, Dec. 11
 - 1 Spatocco, Gene Leonard, BA, Dec. 20
 - 1 Staller, Carol, A&L, Dec. 21
 - 1 Testone, Quentin Anthony, BA, Nov. 27
 - 1 Wagner, Marion Donald, BA, Dec. 13
 - 3 Wilson, George R., CE, Dec. 2
 - 1 Hartweg, Louis Leo, Jr., Psy, Dec. 20
 - 1 Stern, Ian, ME, Nov. 16
 - Associate Degree Program*
 - 1 Cuvo, Andrew Anthony, ET, Nov. 15
 - 1 DeLabar, James Stanley, ET, Dec. 20
 - 3 Fleming, Merle Boyd, DDT, Dec. 20
 - 3 Mishler, Harry Arnold, ET, Dec. 16
 - 1 Burkhart, Charles Edward, ET, Nov. 29
 - 1 Knox, Wilbur Norman, DDT, Nov. 20
 - 1 Trbuza, Edward James, ET, Dec. 13
 - 1 Ulisse, James Louis, ET, Nov. 30
- The following reasons were given for withdrawing: Personal 12, Financial 10, Illness 6, Scholastic 10, Transferring 3, and Other 4.

CHANGE OF NAMES

Anderscn, Ann Cuthrell from Cuthrell, Ann Adams
Hcrstman, Sheila Orben from Orben, Sheila Hazel
Jones, Carol Klamt, from Klamt, Carol Ann Lyon, Judith Lynn from Lynn, Judith Belle Manning, Huberta Young from Young, Huberta
Pezzner, Nan Ruth from Zimmerman, Nan Ruth
Pierson, Barbara Ann from Bills, Barbara Ann

\$5 Million Soil Inventory Program Launched In State

A grant of \$70,000 has been made to the department of agronomy to initiate its work in a ten-year program to complete a basic inventory of soil resources in Pennsylvania. The overall cost of the program is estimated at \$5,000,000, to be shared equally by the U.S. Department of Agriculture and the Commonwealth.

Three new faculty members have been added to carry out the department's program, including Dr. R. P. Matelski, professor of soil technology; Carl F. Engle, instructor in soil technology; and Ervin Mason, soil physics technician.

The basic inventory is needed for practical agricultural and forestry work, for all research on crops, pastures and forests, for soil conservation and flood control programs, for highway construction, and for all other uses.

Report on University's Future Indicates Many Changes By 1970

The Board of Trustees has "approved in principle" a report on long-range development for the University which foresees an enrollment of 25,000 on main campus and 10,000 at off-campus centers, an annual budget of \$100,000,000, doubling of present research expenditures, and increased enrollments of graduate students and women students, by 1970.

The plan was drawn up by a committee chaired by C. S. Wyand, vice-president for development, and consisting of L. E. Dennis, vice-president for academic affairs; McKay Donkin, vice-president for finance; M. A. Farrell, vice-president for research; A. Witt Hutchison, chairman of the Senate Committee on Extension Policy; E. L. Keller, director of General Extension; Ossian MacKenzie, vice-president for business administration; H. K. Schilling, chairman of the Senate Committee on Educational Policy; and R. W. Stone, chairman of the Senate Committee on Research Policy.

The budget presupposes an annual State appropriation of \$40,000,000, a boost in Federal aid to \$10,000,000, annually, and a yearly income from fees, room and board charges, and miscellaneous gifts of \$50,000,000. The Commonwealth, the report points out, would be providing essentially the same percentage of the total budget as it did in 1955.

President Walker, in commenting on the study, said "we recognize that our plan is conservative, but we felt that we should make known our absolute

minimum requirements now, and then make adjustments as time and conditions dictate."

Of the campus enrollment, 8,250 are expected to be women students (compared to 3,200 at present), and graduate student enrollment will reach 4,250 (1,500 at present). The associate degree program at the centers is expected to more than double and the total enrollment at the centers to reach 10,000. Comparable increases in informal and non-credit programs in General Extension are forecast.

The present research budget of \$7,500,000 is also expected to more than double, with a better balance between sponsored and institutional types of research, a better integration of teaching and research in faculty schedules, and a more ambitious graduate training program.

A student-faculty ratio of 22 to 1, compared to the present 15-1, is foreseen in the study, with an optimum use of teaching assistants and other resources helpful to the faculty. An expanded program of sabbatical leave, additional academic and clerical assistance, and increases in faculty and staff salaries designed to maintain and improve the University's competitive position, are also proposed.

Among construction developments suggested were the establishment of housing facilities for married graduate students. The total outlay for construction by 1970 is estimated at \$168,000,000. All money figures are expressed in terms of 1957 dollars.

Solid Absorbents Studied For Sterilizing Effect

A one-year grant of \$2,400 by the American Society of Air Conditioning Engineers is supporting work by E. R. McLaughlin, associate professor of engineering research, to study the possibility that solid absorbents, such as silica gel, may be used to sterilize air.

Used in air conditioners to control humidity, these absorbents may have ability to sterilize air also. If so, the dual role of the absorbents would reduce the cost of air conditioning equipment and be particularly important to hospitals and pharmaceutical companies. They may also be helpful to sufferers from respiratory diseases by air conditioning their homes.

The department of bacteriology is cooperating in the study by analyzing air samples for their bacterial count.

Senate Meets Thursday

The University Senate will meet in the Assembly Room of the Hetzel Union Building at 3:10 p.m., Thursday, Feb. 6. Please note change in time.

Aspaturian To Visit In Russia Next Summer

With the aid of a \$2,200 grant from the Inter-University Committee on Travel Grants, Dr. Vernon V. Aspaturian, associate professor of political science, will gain a first-hand view of Soviet Russia's political institutions, educational system, libraries and research facilities, through a six-week tour of Russia and two satellite countries.

In the Soviet Union, Dr. Aspaturian will visit Leningrad, Moscow, Rostov, Kiev and Kharkov, then will spend 10 days in the Caucasus, seven days in the Armenian Republic, and three days in the Georgian Republic. Subsequently, he will visit Poland and Yugoslavia.

Main purpose of the trip is to gain personal impressions of the Soviet Union, Poland and Yugoslavia. Co-author of the book "Diplomacy and World Politics," set for publication in March, he is also working on a book, "Ideology and National Interest in Soviet Diplomacy," which he plans to publish in 1959.

Calendar

Saturday, Feb. 1

Varsity wrestling, versus Navy, Rec Hall, 8 p.m.

Sunday, Feb. 2

DePaure Opera Gala presentation on the Artists' Series, 8:30 p.m., Recreation Building. Chapel Service, 10:55 a.m., Schwab Auditorium, Dr. Luther Harshbarger, University chaplain.

Monday, Feb. 3

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. A. K. Blackadar, associate professor of meteorology, on "Tracking Satellites."

Spring semester classes begin 8 a.m.

Tuesday, Feb. 4

Economics Seminar, 12 noon, dining room "A", Hetzel Union Building. Dr. Robert Strotz, professor of economics, Northwestern University and editor of "Econometrica" on "The Role of Stereotypes in Welfare Economics."

Wednesday, Feb. 5

Basketball, versus Pennsylvania, 8 p.m., Rec Hall.

Thursday, Feb. 6

Meeting of University Senate, 3:10 p.m., Assembly Room, Hetzel Union Building.

Address on report of long-range developments, by President Eric A. Walker, to University faculty, 4:10 p.m., Schwab Auditorium.

Liberal Arts Research Luncheon, 12 noon, dining room "A", Hetzel Union Building. Dr. Robert R. Reed, associate professor of English, on "Hamlet the Pseudo-Procrastinator."

New Policy Provided For Waste Material Disposal

The responsibility for the administration of the University's policy on the disposal of waste materials has been placed in the hands of the newly created Department of Security and a new policy supersedes that issued on Dec. 17, 1956. The new policy provides:

1. Each employee of the University must be responsible for the custody and disposition of materials which he obtains or produces that should not be disposed of through routine channels. The Budget under which the work is done must provide for the disposal of such materials.
2. Amounts of materials which, in the opinion of the responsible employee, are dangerous, toxic, explosive or incompatible with general refuse must be specially escorted and transported to the waste disposal area by a person who understands the disposition of such materials.
 - a. If there is any question concerning the harmful effects of any substances transported to the designated disposal area, the responsible employee must render such materials harmless. Such harmful substances should be burned if possible.
 - b. If no vehicle is available in the particular department where such waste materials accumulate, the department should make arrangements with the Department of Physical Plant to engage a vehicle.
3. If an emergency arises whereby dangerous materials may have been inadvertently placed in the sewage disposal system, the dean, administrative officer or any other responsible person should call the power plant, Ext. 427, and stand by to provide information as needed. The power plant staff has an established alert system for carrying out emergency procedures.

Exhibit Honors Tschan

A memorial exhibit honoring the late Dr. Joseph F. Tschan, with publications and books and items depicting his active role in the State College community, is now on display in the lobby of Sparks Building.

Dr. Tschan came to Penn State in 1925 and retired in 1946 as professor emeritus of history. He died July 24, 1957. A memorial book in his memory has been started.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Steinbeck Play Opens Feb. 14 At Center Stage

The John Steinbeck three-act drama, "Burning Bright," will open as a Penn State Player production next Friday, Feb. 14, and continue at Center Stage for the remaining weekends during February.

Tickets, priced at \$1.00, will be available starting Monday, Feb. 10 at the Hetzel Union Building desk. Tickets may be reserved by telephone.

The play is directed by Mark Wallace, graduate student in theatre arts, in partial fulfillment on the requirements for his master of arts degree.

Music Program In Chapel Features Brown, Brinsmaid

A program of vocal and instrumental music will be presented on Sunday, Feb. 9, at 4:15 p.m. in the memorial lounge of the Helen Eakin Eisenhower Chapel, featuring Raymond Brown, baritone, assistant professor of music, and Barry Brinsmaid, also assistant professor of music, at the piano and harpsichord. The program is being presented by the department of music.

Assisting in the program will be Theodore Karhan, associate professor of music and music education, as violist; Barbara Thomas, part-time instructor in music, as violinist; and Henrietta Hertzog, junior student, as cellist.

Faculty-Trustee Dinner Scheduled For Mar. 27

The annual Faculty-Trustee dinner sponsored by the Penn State chapter of the American Association of University Professors will be held on Mar. 27 in the ballroom of the Hetzel Union Building, at 6 p.m.

The program will include vocal, instrumental and dramatic arts presentations by students.

Dr. Deno G. Thevaos, associate professor of psychology, and Dr. Joseph H. Britton, associate professor of child development and family relationships, are chairmen for the dinner.

Brotherhood Banquet Features Dr. Ira Reid

The fifth Brotherhood Banquet will be held in the Hetzel Union Building ballroom at 6 p.m. on Wednesday, Feb. 12, with Dr. Ira DeA. Reid, professor of sociology and chairman of the department of sociology and anthropology at Haverford College as guest speaker.

Tickets for the banquet, sponsored by the Committee on Interreligious Affairs, are priced at \$2.50 and are available at the HUB desk or the Helen Eakin Eisenhower Chapel.

Dr. Reid, former director of research for the national Urban League, consultant on minorities for the Social Security Board, and associate director of the Southern Regional Council, will speak on "Roads To Racial Peace."

The committee sponsoring the banquet was established five years ago to serve as a consulting committee to the University chaplain and to explore possible areas of interreligious co-operation, and to be responsible for the planning and execution of programs in interreligious affairs.

Appointments, Resignation Announced By Trustees

Dr. Gerald J. Stout, who resigned as associate professor of horticultural manufactures in 1947 to join the faculty at the University of Florida, has returned to the staff as research associate in the engineering experiment department, effective Feb. 1.

Francis P. Finlon, formerly associate professor of engineering research and for the past year associated with Haller, Raymond and Brown, has also returned to the staff, as associate professor of engineering research at the Ordnance Research Laboratory, effective Jan. 20.

The resignation of Dr. John H. Reedy, associate professor of economics, was announced, effective Dec. 31. He has accepted a position as chief economist of the Export Division, Chrysler Corp.

The announcements were made by the Board of Trustees at its meeting in January.

Penn Sociologist Opens Graduate School Series

Dr. William D. Turner, professor of administration and social relations, School of Social Work, University of Pennsylvania, will speak on Tuesday, Feb. 11, at 8 p.m. in Room 121, Sparks Building, in the first of the series of three lectures on the Graduate School program for the spring semester.

Dr. Turner will speak on "Social Work in a Dynamic World," in a lecture co-sponsored by the College of the Liberal Arts.

Dr. H. Bentley Glass, professor of genetics, Johns Hopkins University, will present the second lecture on Mar. 3, speaking on "New Horizons in Human Genetics" and Dr. Otto A. Will, Jr., director of psychotherapy, Chestnut Lodge, Rockville, Md., will lecture on "Human Relatedness and the Schizophrenic Reaction" on April 14.

Incomplete Registration Shows 15,791 Enrolled

A total of 15,791 students had enrolled for the spring semester at close of registration on Saturday, Feb. 1. The figure is compared to the 16,837 who had registered at a corresponding time for the fall semester, and 14,379 for spring semester, 1957.

The enrollment on main campus was 13,168, compared to 13,803 for fall semester. At the centers and at Mont Alto a total of 2,623 had enrolled, compared to 3,034 for the fall semester.

Artists' Series Tickets Available For Brailowsky

Tickets to the concert to be presented on Friday, Feb. 14, by Alexander Brailowsky, Russian-born pianist, will go on sale to faculty and other non-students on Wednesday and Thursday, Feb. 12 and 13, at the Main Desk of the Hetzel Union Building.

The concert is the tenth in the series presented by the University Artists' Series and will be held in Schwab Auditorium. The ticket price is \$1.25.

Reynolds, Civil War General Subject of Nichols' Biography

FOR a number of years, the brief historical facts contained in the official records concerning John Fulton Reynolds (1820-1863) have held a certain fascination for Dr. Edward J. Nichols, professor of English composition.

And now, in a few weeks, there will appear in print as the first book published by The Pennsylvania State University Press, Nichols' biography of this Civil War general whose decision at the battle of Gettysburg turned the tide of the War and probably of history itself.

"Toward Gettysburg" is a scholarly book, without fancy, intended for scholars of the history of the mid-19th Century, but written also to attract the non-scholar. It is appropriately Pennsylvanian, dealing with a subject



Dr. E. J. Nichols

His Book First

born in Lancaster and focused on key events which take place in the State.

Nichols has had a real interest in history and historical research for more than thirty years, and much of his reading has been on the Civil War. The position of Reynolds in the story of Gettysburg has been well known, as revealed by official records.

"But," explains Nichols, "little or nothing has been written about Reynolds the man. He was something of an enigma, especially in view of the fact that practically all the other corps commanders of the war had been subject to biographical studies.

"Since Reynolds was born in Lancaster and many facts about him should have been available there, it was natural to turn to the Lancaster Historical Society for help. I learned that none

of Reynolds' papers had ever been made available.

"There was no assurance, of course, that any such papers existed. They may have been destroyed long ago.

"I discovered, however, that Col. J. F. R. Scott, of Wynnewood, near Philadelphia, was a grand nephew of Reynolds and had given many talks on the general.

"Col. Scott had in his possession some 150 letters written by Reynolds and handed down through the family. He also had many letters written to Reynolds by the family and by such military leaders as Scott, Meade, and Hooker, and many scrapbooks, clippings, field orders and dispatches.

"Before I could get to Wynnewood, Col. Scott died. Fortunately Mrs. Scott knew of my interest and permitted me to bring these documents back to the campus for study. Ultimately, she gave the general's papers to the library at Franklin and Marshall College but with the stipulation that they not be made public until I had completed my work."

The result of his many years of research is a scholarly, completely documented biography which reveals many new facts of one of the most dramatic periods in this country's history.

It is a story beginning when Reynolds was a 13-year-old schoolboy in Lancaster and tells of his career to its ending on the fatal day of the battle of Gettysburg when Reynolds was killed in leading his men.

In his 43 years, most of them as a devoted soldier, Reynolds demonstrated many virtues. In his biography, Nichols had to make no apologies for his subject, as many biographers seem inclined to do.

"My personal interpretation of Reynolds' life changes no aspect of it," Nichols explains. "The facts speak for themselves."

Reynolds, a West Point graduate and career Army man, was popular with officers and enlisted men alike. As corps commander in the Army of the Potomac (he had commanded the crack Pennsylvania Reserves), Reynolds was known as a "fine soldier," an excellent organizer, good strategist, and a bold, compelling figure. The Pennsylvania Reserves, the only division to maintain its identity throughout the three years of its enlistment, is given full credit by Nichols for its very significant contribution to the Northern cause.

In the confused early days of the War, the command of the Army of the Potomac changed hands frequently. Unquestionably, Nichols believes, one reason for these changes was the political interference at Washington. A

ABOUT THE PRESS

The purpose of the University Press is to provide opportunities for members of the Penn State faculty and staff to publish scholarly and other useful works with the assistance of the University and under its imprint.

Toward this end, the University Press Committee invites authors to submit manuscripts, especially works which fill a particular need and have a fair chance of returning most of the investment.

The committee has purposely avoided any regulation, on the other hand, that would prohibit the publication of any good book, whatever the category; but it prefers not to publish text books and also prefers that publications should be full-fledged, ranging from monographs to definitive studies.

The Press is particularly interested in receiving manuscripts, the publication of which are wholly or largely financed by recognized foundations or other organizations, principally those of educational purpose.

(To date, the Press has received more than 40 manuscripts, has published one, will add a second title in the Spring described in the accompanying article, and has a third manuscript in the process of being written.)

month before Gettysburg, Reynolds was offered this position.

"He turned it down," Nichols says, "probably because of the political interference."

Instead, the post was given to Gen. George Gordon Meade, on June 26, 1863. Meade, although a good friend, was jealous of Reynolds. There was no rancor involved but certainly the fact that Reynolds was offered the command of the Army of the Potomac before Meade gave cause for jealousy.

"It is all the more remarkable, then, what took place finally," Nichols points out.

When what little available intelligence was made known, Lee was advancing on Gettysburg. Meade was in command only a few days. He was faced with the imperative decision of standing and fighting or withdrawing to another position.

Reynolds was on the scene with his corps. He was more familiar with the situation and the terrain than anyone else. It was natural for Meade to ask for advice.

Meade, however, gave Reynolds practically carte blanche authority in the situation. The cavalry, then the eyes of the army, was tired. Reynolds could not be sure that Meade's own troops would arrive at Gettysburg to be of help.

"But the indecision of Meade might well have been fatal," Nichols says. "Here, for the first time, were invading forces on strictly northern territory.

(Continued on page four)

Items of Interest

Dr. Philip L. Walker, Jr., professor and head of the department of fuel technology, has been appointed to the reactivated Committee on Chemical Utilization of Coal in the Division of Chemistry and Chemical Technology of the National Research Council. His term will run until June 30, 1960.

* * *

Dr. Arthur Rose and Dr. Michael R. Cannon, professors of chemical engineering, presented papers on distillation recently at Seton Hall University, at the Distillation Symposium and Exhibit, sponsored by the North Jersey section of the American Chemical Society.

* * *

Dr. Frederick B. Marbut, professor of Journalism who has been on leave of absence for the past six months in Bolivia, presented a series of 12 lectures there which will be published in book form by the University of San Francisco Xavier of Sucre Press. He also wrote a prologue for a book on Bolivian press law.

* * *

Dr. Alfred K. Blackadar, associate professor of meteorology, is editor of a group of monographs by nine authorities summarizing the research progress from 1951 to 1955 in several fields of meteorology.

* * *

Harold P. Zelko, professor of public speaking, addressed the Industrial Management Club of Coatesville recently, on "Management-Employee Communication in Action." Zelko and Dr. Harold J. O'Brien, associate professor of speech, are co-authors of a book of the same title published recently.

* * *

Elmer R. Queer, professor of engineering research and director of the engineering experiment department, was recently elected president of the American Society of Heating and Air Conditioning Engineers.

* * *

In recognition of his work with children and adults afflicted with cerebral palsy, Dr. Eugene T. McDonald, professor of speech education and director of the Speech and Hearing Clinic, has been elected as associate member of the American Academy of Cerebral Palsy.

* * *

Dr. George F. Wislicenus, director of the Water Tunnel, and Dr. Merrell R. Fenske, director of the Petroleum Refining Lab, have been named to subcommittees of NACA. Dr. Wislicenus will be chairman of the subcommittee on compressors and turbines and Dr. Fenske was chosen for the subcommittee on lubrication and wear.

George L. Thuring, professor of industrial engineering, is author of an article on "Project Control in Engineering Development" in a recent issue of Industrial Laboratories.

* * *

Dr. Miriam E. Lowenberg, professor of foods and nutrition, attended committee meetings of the American Dietetics Association, recently. She is president of the Pennsylvania Dietetic Association.

* * *

Dr. C. L. Fergus, associate professor of botany and plant pathology, was recently elected chairman of the Technical Committee of Northeastern Regional Project NE-25, "Tree Wilts".

* * *

Dr. William M. Smith, Jr., professor of family relationships, recently served as an advisor to the Maryland State Committee on Family Life Education and the State Department of Education in Maryland to formulate and evaluate goals for the state's program of family life education in the schools.

* * *

Dr. A. W. Hussman, professor of engineering research, has been appointed to the Diesel Engine Activity Committee of the Society of Automotive Engineers.

* * *

Dr. Hugh Chapman, Jr., associate professor of Romance languages, is author of a note on "Venezuelan Book Publishing" and a book review of Donald L. Fabian's *Essentials of Spanish* in the current issue of *Hispania*.

* * *

Dr. Warren W. Hassler, Jr., assistant professor of history, gave a talk recently on "General George B. McClellan: A Re-evaluation" as the major address of a dinner meeting of the Civil War Round Table, of Washington, D.C.

* * *

Dr. Edward C. Thaden, assistant professor of history currently a Fulbright scholar in Helsinki, is author of an article, "Encounters with Soviet Historians," based on his conversations with a number of Russian historians last summer in the Soviet Union. The article appears in the November issue of *The Historian*.

* * *

Dr. Earl P. Strong, professor of management and director of the Bureau of Business Research, has contributed a chapter on "Office Work" to the World Book Encyclopedia. The next revised edition to include this chapter will appear in the spring.

* * *

Dr. H. A. Panofsky, professor of meteorology, is co-author of a paper titled "An Observational Study of the Relation between Space and Time Spectra" presented recently at the 163rd national meeting of the American Meteorological Society. V. R. K. Rao, research assistant, and Harrison Cramer, of M.I.T., collaborated on the paper.

Expanded Adult Education Program Aided By Grant

An extensive program of adult liberal education will be conducted by the University during the next five years with the aid of a grant of \$298,000 from the Fund for Adult Education.

The program will be supported in part by fees from participants in the program.

Working principally through voluntary organizations in the State, such as rural groups, labor unions, local adult education groups, women's organizations, professional and civic groups, service clubs, and industrial groups, formal and informal programs will be developed in liberal education.

The program will be conducted through the facilities of the General Extension Services, utilizing the 13 centers. In each area, local committees will work with University personnel in planning the program. Programs will be offered in four major fields: social sciences, humanities, arts, and group discussion leadership.

Specialists in each of these four major areas will be assigned from the faculty to the project and a full-time project director will be named.

The policy committee for the project includes Vice-President L. E. Dennis, E. L. Keller, director of General Extension, and Dr. Ben Euwema, dean of the College of the Liberal Arts.

Features of the program proving most successful may be continued by the University after the five-year program is complete, incorporating these features into the regular academic program of the University.

Long Elected President Of Board Of Trustees

James B. Long, consulting engineering of Blue Bell, who has been a member of the Board of Trustees since 1943 as an alumni representative, was elected president of the Board last week to succeed George H. Deike, of Pittsburgh. Deike had been president since 1956.

Officers re-elected at the meeting were: Roger W. Rowland, New Castle, vice-president; Dr. Eric A. Walker, secretary; C. S. Wyand, assistant secretary; and McKay Donkin, treasurer.

Trustees re-elected to the executive committee were: Kenzie S. Bagshaw, Richardson Dilworth, William D. Harkins, J. L. Mauthe, Walter W. Patchell, and George W. Slocum. Long and Dr. Walker are ex officio members of the committee.

Research Contract Extended

For the third year, the Atomic Energy Commission has extended a contract for research on "The Amount and Distribution of Uranium in Base Metal Sulfide Minerals in Vein Ore Deposits," directed by Dr. Harold D. Wright, associate professor of mineralogy. The new contract provides funds amounting to \$11,730.

Reynolds—

(Continued from page two)

Failure to halt Lee could open up vast new approaches to northern strongholds and the effect on the morale of the north might be devastating."

So Reynolds, making up Meade's mind for him, chose to engage Lee in what was to become one of the most bitter battles in history, in which more men were killed than in all but two other battles in modern warfare, (more, in fact, than were killed during the first two weeks of the Normandy invasion in World War II).

Undoubtedly the high point of the book is the period preceding and during the battle, but for many readers it will be an interesting story in entirety. Primarily a book for scholars, it is more completely documented than most books of its type.

"That was one of the fine aspects of working with the University Press on publication of the book," Nichols points out. "To a scholar, documentation is vital; to an editor, footnotes can be anathema."

Author of two novels, Nichols has had experience with commercial publishers. "But the Reynolds manuscript never left town," he says. It was a natural for the University Press and he rates his experience with the Press as a pleasant one.

"The book has been five years in the making," Nichols points out, "and the publishing of it could have been the most arduous part, but instead the co-operation has been excellent and I am particularly pleased that I had to make no compromises in writing or editing to please the publishers."

Obviously Nichols hopes the book will sell, but he's more concerned that it will be accepted as a scholarly work. As such, the University Press committee feels it has a real place as its initial effort in book publishing.

Seminar Schedule Announced

A series of nine seminars on the general topic of "The Natural Gas Industry" has been scheduled by the Mineral Economics department of the College of Mineral Industries.

The first seminar will be held Monday, Feb. 10, at 4:10 p.m. in Room 121, Mineral Industries, with Robert K. Amole, graduate assistant in mineral economics, speaking on "Natural Gas Reserves." Other seminars include:

Feb. 24, Dr. R. Hadly Waters, professor of transportation, on "Transportation of Natural Gas."

Mar. 3, W. G. Jaworek, graduate assistant in mineral economics, on "Natural Gas Price Regulation."

Mar. 10, Dr. Robert Scholten, associate professor of petroleum geology, on "Geology of Natural Gas."

Mar. 17, Luther T. Bissey, assistant professor of petroleum and natural gas engineering, on "Natural Gas Production Problems."

Mar. 24, J. N. Hoffman, research assistant in mineral economics, on "Underground Storage of Natural Gas."

Mar. 31, Dr. G. J. Young, assistant professor of fuel technology, on "Peak Shaving and Interchangeability."

Apr. 14, Theodore S. Spicer, professor of fuel technology, on "Natural Gas from the Combustion Engineers Standpoint."

Apr. 21, Dr. C. R. Kinney, professor of fuel technology, on "Industrial Chemicals from Natural Gas."

UCA Meetings For Faculty On Student Values Begin

The faculty is invited to attend a series of five meetings sponsored by the faculty committee of the University Christian Association during the Spring Semester.

Papers by faculty members dealing with "The Responsible University in an Age of Crisis," with special emphasis given to the university's responsibilities in the realm of student values will highlight the meetings.

Dr. John R. Rackley, dean of the College of Education, will be chairman of the meetings, which will be held at 8:30 p. m. in the main lounge of the Helen Eakin Eisenhower Chapel.

The first meeting, to be held Wednesday, Feb. 12, will feature Dr. H. A. Cutler, Coordinator of General Education, speaking on "Higher Education and the Imponderables."

Subsequent meetings will be held on alternate Wednesdays, with the following schedule:

Feb. 26 — Aaron Druckman, associate professor of philosophy, on "In What Sense is a University Responsible in the Field of Values?"

Mar. 12 — Dr. Roy C. Buck, associate professor of rural sociology, on "Teacher On a Tight Rope—Student on a Fence."

Mar. 26 — Merritt A. Williamson, dean of the College of Engineering and Architecture, on "The Faculty Environment to Optimize the Exposure of the Student to the Realm of Values."

Apr. 9 — Dr. Ralph W. Condee, associate professor of English literature, on "Student Values and Teaching Methods."

Engineering Building Bids To Be Received Mar. 12

Bids for the new engineering building to be constructed along College Ave. will be received by the General State Authority on Mar. 12.

The building will be one of the largest on campus when completed, measuring 609 feet long, 60 feet high, and will be four stories high.

The entire project will include the removal of the Petroleum Refining Laboratory and construction of a new laboratory south of Forestry Building. The Laboratory building will be a two-story structure.

Ski Movie Thursday

Tickets are available for the 105-minute film "Anyone For Skiing" at the HUB desk and at Metzger's and Keeler's bookstores downtown. The movie, narrated by the ski expert Warren Miller, will be shown at 8 p.m. on Thursday, Feb. 13 in Schwab Auditorium.

The color film shows scenes at Sun Valley, Aspen, Lake Placid and many other famous ski resorts, action scenes with many of the nation's best skiers, and other winter sports action shots.

The movie is sponsored by the Penn State Outing Club to support its program in skiing.

Calendar

Saturday, Feb. 8

Wrestling, versus Cornell, 8 p.m., Rec Hall. (Freshmen versus Cornell, 6 p.m.)

Sunday, Feb. 9

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Eastern Orthodox Service of Worship, 10 a.m., Helen Eakin Eisenhower Chapel.

Chapel Service, 10:55 a.m., Schwab Auditorium. The Rev. Sidney Lovett, chaplain, Yale University.

Concert by Raymond Brown, baritone, and Barry S. Brinsmaid, pianist and harpsichordist, 4:15 p.m., Memorial Lounge, Helen Eakin Eisenhower Chapel.

Monday, Feb. 10

Faculty Luncheon Club, 12 noon, Dining Room "A", Hetzel Union Building. Dr. Joseph Alessandro, assistant professor of education, in "A Program for Latin-American Educators in Supervision and Administration."

Mineral Economics seminar, 4:10 p.m., Room 121, Mineral Industries. R. K. Amole, graduate assistant in mineral economics, on "Natural Gas Reserves."

Engineering Mechanics seminar, 4:10 p.m., Room 203 Engineering "A". Dr. Henri Marcus, special lecturer in engineering mechanics, on "Representation of Three-Dimensional Deformations."

Tuesday, Feb. 11

Physics Colloquium, 4:10 p.m., Room 117 Osmond. Dr. Erwin W. Mueller, research professor of physics, on "Field Ion Microscopy."

Graduate School Lecture Series, 8 p.m., Room 121, Sparks Building. Dr. William D. Turner, professor of administration and social relations, School of Social Work, University of Pennsylvania, on "Social Work in a Dynamic World," co-sponsored by the College of the Liberal Arts.

Meeting of the Penn State chapter, American Society for Metals, 7:30 p.m., Mineral Sciences Auditorium. Martin Brezin, U.S. Steel Corp., and Walters Crafts, Electro-Metallurgical Co., on "What Industry Expects of a College Graduate."

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Rev. Preston N. Williams, assistant Chaplain, on "The Optimistic Pessimist."

Plant Science Club meeting, 7:30 p.m., Room 111, Tyson Hall. Dr. A. L. Rodgers, associate professor of geography, on "Some Comments on Recent Urban Development in the Soviet Union." Open to the public.

Wednesday, Feb. 12

Basketball, versus Syracuse, 8 p.m., Recreation Building.

University Christian Association faculty lectures, 8:30 p.m., Helen Eakin Eisenhower Chapel main lounge. Dr. Howard A. Cutler, co-ordinator of general education, on "Higher Education and the Imponderables." Dr. Vernon Aspaturian, assistant professor of political science, and Dr. Michael Chiappetta, associate professor of education, discussants.

Brotherhood Banquet, sponsored by the Committee on Interreligious Affairs, 6 p.m., ballroom, Hetzel Union Building. Dr. Ira DeA. Reid, professor of sociology and chairman of the department of sociology and anthropology, Haverford College, on "Roads to Racial Peace."

Thursday, Feb. 13

Ski movie, "Anyone For Skiing" sponsored by the Penn State Outing Club, 8 p.m., Schwab Auditorium.

Meeting of the Society for Industrial and Applied Mathematics, 7:30 p.m., Room 214, Willard Building. Dr. Hans A. Panofsky, professor of meteorology, on "Stochastic Analysis Applied to Atmospheric Turbulence."

Meeting of the faculty of the College of Home Economics, 4:10 p.m., Room 14, Home Economics Building.

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. John Henry Frizzell, Chaplain emeritus, in charge.

Friday, Feb. 14

Opening night of Player's production of "Burning Bright" by John Steinbeck, 8 p.m., Center Stage.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Liberal Arts Lectures

Open With Dr. Kaufmann

Dr. Walter Kaufmann, associate professor of philosophy at Princeton University, will open the spring semester Liberal Arts Lecture Series on Thursday, Feb. 20 at 8 p.m. in Room 121, Sparks Building.

He will speak on "A Critique of Existentialism."

Other speakers in the series include:

Dr. Douglas Bush, Gurney professor of English literature at Harvard University, Thursday, April 17, on "The Problem of Belief."

Dr. Paul F. Norton, associate professor of history of art and architecture, Wednesday, April 23, on "Benjamin H. Latrobe—An Essay on Landscape."

Dr. Perry Miller, professor of American literature at Harvard University, Thursday, May 1, on "Puritanism and American Literature."

Dr. Kaufmann is well known for his work on Nietzsche and the Existentialists. He is the author of "Nietzsche" and is the editor of "Viking Portable Nietzsche" and "Existentialism from Dostoevsky to Sartre." Born in Germany, he received his A.B. degree from Williams College and his Ph.D. from Harvard University. He has served as visiting professor at Cornell, Columbia, and The New School for Social Research. He has been at Princeton since 1947.

Committee for the Lecture series, which is open to everyone, includes Dr. Hugh H. Chapman, Jr., chairman; Dr. Ralph W. Condee; Dr. Henry W. Johnston; Dr. Philip S. Klein; and Dr. D. C. Miller.

Tickets Available For Artists' Series Feb. 23

Faculty members and other non-students may purchase tickets for the Festive Quartet, the eleventh program of the Artists' Series, on Wednesday and Thursday, Feb. 19 and 20, at the Hetzel Union Building. The price is \$1.25.

The concert is scheduled for 8:30 p.m. Sunday, Feb. 23.

Dr. Riemer To Open UCA Seminar On Faculty Role

Dr. Neal Riemer, associate professor of political science, will give the introductory lecture in a new University Christian Association-sponsored seminar on the general theme "College Teaching and the Role of the Professor's Values and Presuppositions."

The lecture will be given on Wednesday, Feb. 19, at 7:30 p.m. in the main lounge of the Helen Eakin Eisenhower Chapel. Dr. Riemer's talk will be on the specific theme, "College Teaching and Preaching: An Inquiry into the Role of the Professor's Values in the Classroom."

The seminar is designed to provide the opportunity for faculty members to clarify the values and presuppositions and to discuss (1) their responsibility for articulating them, and (2) how to do this in a responsible and understandable way in the classroom.

Following the lecture, the time, place, and dates of future lectures will be decided by the participants.

Dr. Strain To Present Priestley Lectures

Dr. Harold H. Strain, of the Argonne National Laboratory, will present the Priestley Lecture Series, Mar. 24-28.

The topic, "Chloroplast Pigments and Chromatographic Analysis," will be the subject of Dr. Strain's lectures.

The Priestley lectures were initiated in 1926 by Dr. Wheeler P. Davey, now professor emeritus of physics and chemistry, and are now presented by Phi Lambda Upsilon, national honorary chemical society in collaboration with the departments of chemistry and chemical engineering, cooperating with related departments of the Colleges of Agriculture and Mineral Industries.

NOTICE

There will be no Graduate School faculty meeting in February. The next meeting will take place on Mar. 20.

Brailowsky Concert Tonight

Alexander Brailowsky, world famed pianist, will play a program of Chopin music for his concert tonight in Schwab Auditorium at 8:30 p.m. on the Artists' Series.

Born in Kiev in 1896, Brailowsky was the son of an oil executive and amateur pianist. His piano studies began at the Kiev Conservatory and he later studied under Theodor Leschetizky in Vienna.

UCA Lecture Series Begins Tomorrow

A series of lectures sponsored by the University Christian Association designed primarily for faculty, staff, and graduate students will get underway Saturday, Feb. 15, at 6 p.m. in dining room "A" of the Hetzel Union Building.

The general theme of the lectures will be "The Historic Christian Faith and Contemporary Man."

Dr. Roland Bainton, Titus Street Professor of Ecclesiastical History at Yale University, will be the featured speaker tomorrow night. He is one of the country's leading specialists in Reformation history. He is an ordained minister of the Congregational Church and an active member of the Society of Friends.

Only a limited number of reservations are available for the dinner-lecture and must be made by today (Friday) by calling the University Christian Association, Ext. 541.

Dr. Colin Williams, professor of Historical Theology at Garrett Biblical Institute in Evanston, Ill., will be the second speaker in the series, on Mar. 1.

\$2000 Grant Provided

The Continental Can Co. has donated \$2,000 to support the work of the departments of ceramic technology and fuel technology in any way deemed most desirable. The gift was made as a tribute to the work of the two departments in training men for nationally important industrial work.

Senate Minutes

Minutes of the Meeting of February 6, 1958

The University Senate met at 3:10 p.m. on Thursday, February 6, 1958 in the Assembly Room of the HUB with President Eric A. Walker presiding. The minutes of the January meeting were approved as printed in the Faculty Bulletin for January 31, 1958. One hundred forty-nine senators signed the roll.

COMMUNICATIONS FROM UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: B. A. Whisler (C. J. Smith), E. P. Strong (Alice E. Warner), D. W. Davis (R. O. Byers), R. G. Bernreuter (M. L. Zeigler), A. W. Hutchison (J. R. Hayes), F. W. Peikert (H. V. Walton), and L. S. Roudiez (W. S. Smith).

New Senator

From the College of Business Administration, Monroe Newman to serve as G. L. Lefler's substitute for the balance of the academic year.

Actions of the Board of Trustees

Memo dated February 6, 1958 from L. E. Dennis, Vice President for Academic Affairs:

At its semiannual meeting in Harrisburg, Pennsylvania, January 25, 1958, the Board of Trustees of the University, acting on the recommendation of its Committee on Instruction, dealt with two matters of direct interest to the University Senate:

(1) Revised wording of Article I, Section 1 of the Constitution of the Senate. The Board approved the change in the Constitution, as voted by the Senate on January 9, 1958.

(2) Revision of the University policy on Sabbatical Leaves of Absence. The Board reviewed favorably the proposed revision of the sabbatical leave policy, and referred it to the administration of the University for an analysis of its budgetary implications. Formal action by the Board on the proposed policy revision will await presentation by the administration of its 1958-59 annual budget recommendations, to be submitted to the Board later this year.

The secretary read this statement to the Senate:

Now that the Board of Trustees has approved the amendment to the Senate Constitution, we need to decide on the effective date for this increase in the membership of the Senate.

(1) Shall new senators be elected to serve during the remainder of this academic year?

(2) Shall the new senators be included in the annual elections to take office for the year 1958-1959?

President Walker suggested that this question be discussed under new business.

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A" and moved its adoption. The motion was seconded and passed. The report is on file in the office of the secretary.

F. M. Coombs, Chairman of the SENATE COMMITTEE ON CALENDAR, stated that the committee was preparing a questionnaire to be distributed to all faculty members, which would poll the faculty on their opinions regarding the future calendar at Penn State. These questionnaires are to be returned by March 1 after which the Committee will make a report to the Senate.

NEW BUSINESS

Hummel Fishburn moved that when the Colleges hold elections for new senators, to be reported to the Senate at the May meeting, they base their elections on Article I, Section 1 of the Constitution as amended at the January meeting of the Senate and approved by the Board of Trustees. The motion was seconded and passed.

Comments and Recommendations for the Good of The University

President Walker read a prepared statement on Academic Honesty:

There is one thing which has given me a great deal of concern during the past few weeks which I would like to review briefly with the Senate. It has to do with academic honesty.

The quality of the instruction at this University rests completely in the hands of the

faculty and the University Senate. The amount of work the students do and their performance is pretty much a function of the desires and standards set by the faculty and the Senate. Certainly, the measurement of the students' performance, as determined by examinations and other means, is entirely up to the faculty member.

For this reason and others, I was much disturbed when certain students and certain members of the staff told me that dishonesty was rampant during the recent mid-year examinations. I do not know whether this allegation is true nor do I have at hand the mechanism to prove or disprove it, but just the fact that statements like this are being made is a cause for considerable concern.

It has been alleged that certain examinations were "out" before the examinations were given. I know, and you well know, that old examinations are available to the students both in the libraries and in the fraternity houses, but there is no excuse for an examination which has not been given to become the property of any student. It is the duty of the faculty to protect the examinations. I am told that some of the mechanisms for obtaining an examination are to search the wastebaskets for rough drafts or used stencils. Another mechanism is to make special appeals to secretaries or to work through graduate assistants. I am told that in some cases professors' desks and files have been rifled. Perhaps it is difficult to protect examinations under our present provisions for reproduction, but I do not see why it should be so. After all, we have a system in the University which provides for the printing and distribution of CONFIDENTIAL and SECRET military reports and certainly that mechanism can be used by professors and applied to the protection of examinations. If any Senator or any department head or any faculty member for that matter, does not know of this system, I'm sure he can find out about it by talking to a Dean, or if your Dean does not know, talk to the Vice President for Academic Affairs.

I have also heard that it is almost impossible for students not to cheat because they are seated too close together and all are required to take the same examination. It is also alleged by the students that proctoring is quite inadequate and it becomes almost the "thing to do" to cheat.

It has been alleged that one professor said he knew the cheating was rampant in his examinations but the students ought to learn that this is the kind of world in which they live, and then added, "After all, if I accused a student of cheating I might find out that his father is a contributor to the Alumni Fund." I cannot conceive a more flagrant lack of

responsibility than this. I hope that no member of this body and no member of our faculty, for that matter, will ever be guilty of making such statements.

It has been alleged that pressures are applied to staff members to pass students. I do not see how such pressures can be applied. Certainly they are not applied by me and anyone who is responsible to me. If, indeed, such pressures become apparent, I hope any one of you will feel free to call me and tell me about the incident and thus help me to prove that pressures cannot be applied successfully.

The framework in which the members of the Senate and the faculty should consider this problem of academic honesty is clearly indicated in this communication which was received from a member of the University Staff.

"We need faculty members whose attitudes and personal conduct will serve as models for our undergraduate students. This is an old-fashioned thing to say, but it is needed in our growing university more than ever.

"We need faculty members who are free from cynicism, who approach student's problems with a wholesome respect for the integrity and innate honesty of the students.

The major functions our teachers perform are to instruct in content and inspire in citizenship. Our leadership on all administrative levels must expect this of all teachers and must assume that the teachers will accept these functions.

"Through his attitudes and by his behavior, a teacher should inspire students toward honesty. The essential ingredients for achieving honesty are: elimination of temptation by preventing opportunities for cheating; removal of the need for temptation by modifying any unfair examination methods; by eliminating the temptation for students to cheat in self defense; and recognition of the strong movement among the students to develop an honor system which will emphasize the spiritual and material values of honesty.

"Our students are ready to accept leadership in honesty from teachers and administrators. We must provide them with leadership."

President Walker then discussed in some detail several of the items of business considered by the Board of Trustees at the semiannual meeting in January.

The next regular meeting of the Senate will be on Thursday, March 6 at 4:10 p.m. in the Assembly Room of the HUB. The agenda will be distributed on February 20, 1958.

The meeting adjourned at 3:43 p.m.
C. O. Williams
Secretary

✓ Lawther Gets Fulbright Lectureship In Peru

Dr. John D. Lawther, associate dean of the College of Physical Education and Athletics, will lecture at the National Institute of Physical Education at Lima, Peru, during the latter half of the year under a Fulbright grant.

He has been granted a leave of absence to undertake the new work.

Dr. Lawther will advise the staff of the Institute in the reorganization and expansion of the curriculum, help establish a department of graduate studies, and train two Peruvian professors to serve as his assistants and continue the work.

✓ Dr. Schempf Named Fulbright Lecturer In West Pakistan

Dr. John M. Schempf, associate professor of chemistry, will lecture at the University of Peshawar, West Pakistan, during the 1958-59 academic year as a Fulbright lecturer.

For this purpose, Dr. Schempf has been granted a year's leave of absence. He will lecture on analytical and inorganic chemistry.

A graduate of the University of Wisconsin, Dr. Schempf received his doctor of philosophy degree from Cornell University.

Audio-Visual Aids Previews

Materials listed below have been requested. Please call Extension 2051 and give code number of those you would like to see; you will be notified when they arrive so that you can arrange a preview showing in Room 9, Library.

- J-1 Two Decades of History (Twenties and Thirties, compiled from newsreels)
- J-2 Madeline (Bemelman's story)
- J-3 Mongana (medical mission in Africa)
- J-4 American Drugstore Business Training Series (filmstrips)
- J-5 Handel and His Music
- J-6 Mealtime Manners and Health
- J-7 Ireland: The Land and the People
- J-8 Behavior in Animals and Plants
- J-9 It's a Cat's Life (primary level film)
- J-10 Which Way to Peace? (Methodist Film Commission)
- J-11 Attitudes and Health
- J-12 Naval Wars with France
- J-13 Coco Explores a Pier
- J-14 Coco and the Seabirds
- J-15 Coco's Garden Adventure
- J-16 Coco Takes His Magnifying Glass into the Garden
- J-17 Coco's Garden Lesson
- J-18 American Imports—A New Look
- J-19 The World of Mosaic
- J-20 The Carpet under Every Classroom (school library services)
- J-21 Journey in France
- J-22 Country of Islam (Morocco)
- J-23 The Daf Heart (TV program on the heart)
- J-24 The Big City (documentary of city government)
- J-25 My Pop's a Lineman (safety film)
- J-26 Careers in Economics (filmstrip)
- J-27 Collection of Data (filmstrip)
- J-28 Credit Management — A Career with a Future (filmstrip)
- J-29 Retailing — A Dynamic Career That Pays (filmstrip)
- J-30 Retail Credit: Behind the Scenes (filmstrip)
- J-31 Selling — A Career for You (filmstrip)
- J-32 What Does Advertising Do? (filmstrip)

Items of Interest

Condensation of Plans

Long-Range Outlook Shows Growth in All Areas

✓ Dr. Arthur Rose, professor of chemical engineering, has been awarded a one-year, \$16,600 grant by the National Science Foundation for further research on vapor-liquid equilibrium and distillation of fatty acids, esters, and alcohols.

* * *

Dr. John F. Corso, professor of psychology, and a former graduate assistant in the Human Factors Research Program are authors of an article on "Additional Variables on the Bekesy-Type Audiometer" appearing in the December issue of the American Medical Association Archives of Otolaryngology.

* * *

Lee E. Corter, municipal representative in the Institute of Local Government, spoke on "Local Government Reporting" in the program of the Central Pennsylvania chapter, American Society for Public Administration yesterday.

* * *

Dr. Houston B. Couch, assistant professor of plant pathology, recently addressed the Golf Course Superintendents Association of America at its national meeting on "Recent Developments in Research on the Nature and Control of Diseases of Turf Grass."

* * *

Dr. Miriam E. Lowenberg, head of the department of foods and nutrition, will talk on "Food Comes First—For Children" at the National Food Conference in Washington, D.C., on Feb. 24.

* * *

Dr. J. B. Washko, professor of agronomy, was recently re-elected chairman of the Technical Committee of Northeastern Regional Project NE-29, on Forage Crop Management.

* * *

Thomas D. Bowman, professor of English, is author of an article on Shakespeare's Antony and Cleopatra, titled "Antony and the Lass Unparalleled" appearing in the current issue of The Shakespeare Newsletter.

* * *

✓ A contract for research by Dr. A. W. Hussman, professor of engineering research, on gas turbine combustors, has been renewed for another eight-month period with a grant of \$11,400. The work has been going on for two years.

* * *

✓ Dr. Allan W. Taylor, assistant professor of ceramic technology, has been elected a Fellow of the Royal Institute of Chemistry, London

(The following is a condensation of the University's long range plans as "approved in principle" by the Board of Trustees at its January meeting.)

A prediction that the University will enroll 35,000 students by 1970—25,000 on main campus—is based on population studies and enrollment projections for higher education in Pennsylvania as utilized by Governor Leader's Commission on Higher Education.

In formulating plans for the future, the University's administrative committee, headed by C. S. Wyand, vice-president for development, chose the "low" rather than the "medium" or "high" projection of the Commission, taking the position that the committee should outline minimum rather than maximum demands likely to be made on the University in the decade ahead.

The Commission's projection predicts a college enrollment in the State of 177,600 in 1970, an increase of 55 per cent over enrollment in 1955. Of the total, Penn State anticipates responsibility for 13.8 per cent. At present, the University absorbs approximately 9.4 per cent of the total.

The following table summarizes enrollment figures in comparison to those of the 1957-58 fall semester registration figures:

	At Present	1970
Total enrollment	19,265	35,125
Campus enrollment	14,131	25,125
Center enrollment	3,194	10,000
Part-time Extension	1,940*	
On-campus, freshmen and sophomores	6,719	10,875
On-campus, juniors and seniors	5,503	10,000
On-campus, graduate and special	1,909	4,250
Women students, on campus ..	3,781	8,250
Enrollment by colleges:		
Agriculture	1,273	1,950
Business Administration	1,508	3,000
Chemistry and Physics	843	1,400
Education	1,697	2,000
Eng. and Arch.	2,838	4,000
Home Economics	718	1,800
Liberal Arts	1,726	4,000
Mineral Industries	587	750
Physical Education and Athletics	131	500
Division of Counseling	719	1,475

* These do not use either campus or center facilities. They include both undergraduate and graduate students.

Building Program Projected

Additional residence halls for men and women students were given tacit approval by the Board of Trustees, as follows:

1. Women's hall for 1050 students at Pollock Circle, together with a dining hall facility for 1050 women and the 1150 men now in Nittany dining halls. Occupancy 1960.

2. Men's residence hall in Pollock Circle for 1100, with food service provided in existing dining halls. Occupancy 1960.

3. Women's hall for 1050 on site across from Flower Gardens, half un-

dergraduate and half graduate. Food service immediately for the 1050, with provision for increasing food service to 1600. Occupancy 1961.

To provide additional space for graduate students, the following steps are contemplated:

1. On experimental basis, utilizing Woman's Building for single men and women graduate students, next September.

2. Designation of the area east of Eastview Terrace as site for first two increments of housing married graduate students. (Approved on a tentative basis, with occupancy in early 'sixties.)

Central campus, in general, will be reserved primarily for academic buildings, with general function buildings on the periphery and residence halls earmarked for six major areas.

A major change would be the conversion of Beaver Field into an academic area. A research center is proposed east of Eastview Terrace.

Thirteen per cent of the estimated \$168,000,000 required for building needs by 1970 has already been approved for construction, and financed.

The Budget

An annual budget of \$100,000,000 in 1970 presupposes that the enrollment will be no higher than 35,000, no new areas would be developed, and that the dollar value remains constant.

The annual State appropriation, assuming that the total program would be supported on the same relative scale as it now is, would be \$40,000,000. Federal aid would have to be increased to \$10,000,000; and income from fees, gifts, room and board, and miscellaneous gifts would rise to \$50,000,000.

Salaries and wages would, as now, represent the largest single budget item, reaching \$65,000,000, compared to \$22,000,000 at present.

The current annual research budget of \$7,500,000 is expected to double, with greater emphasis on non-sponsored research, a larger graduate training program, and a better integration of teaching and research in faculty schedules.

Also In The Future

To promote better use of time, personnel, and facilities, the committee suggests that the student-faculty ratio be increased from 15-1 to 22-1 by 1970, and that optimum use be made of teaching assistants and other resources helpful to the faculty, including closed-circuit television and other equipment.

More complete use of campus facilities 12 months of the year is also foreseen and adjustment of daily and weekly class schedules to insure optimum use of personnel, dormitories, classrooms, and laboratories is recommended.

Calendar

Friday, Feb. 14

Fluid Mechanics Seminar, 4:10 p.m., Room 1, Sackett Building. Dr. Hsuan Yeh, professor of mechanical engineering, University of Pennsylvania, on "Inlet Distortion and Stall Propagation of Axial Flow Compressors."
 Artists' Series concert by Alexander Brailowsky, pianist, 8:30 p.m., Schwab Auditorium.
 Players production of "Burning Bright," 8 p.m., Center Stage.
 American Statistical Association meeting, 4 p.m., Room 319, Willard Building.

Saturday, Feb. 15

Varsity gymnastics, versus Syracuse, 3 p.m., Rec Hall.
 Varsity wrestling, versus Syracuse, 7 p.m., Rec Hall.
 Varsity basketball, versus West Virginia, 8:45 p.m., Rec Hall.
 Players production of "Burning Bright," 8 p.m., Center Stage.
 Dinner-lecture sponsored by the University Christian Association, on theme "The Historic Christian Faith and Contemporary Man," 6 p.m., dining room "A," Hetzel Union Building.
 Dr. Roland Bainton, Yale University.

Sunday, Feb. 16

Roman Catholic Mass, 9 a.m., Schwab Auditorium.
 Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.
 Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Roland Bainton, Titus Street Professor of Ecclesiastical History, Yale University Divinity School.

Monday, Feb. 17

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Vernon M. Albers, chief scientist, Ordnance Research Laboratory, on "An American in London."
 Engineering Mechanics seminar, 4:10 p.m., Room 203 Engineering "A." Dr. Henri Marcus, special lecturer in engineering mechanics, on "Representation of Three-Dimensional Deformations."

Tuesday, Feb. 18

Economics Seminar, 12 noon, dining room "A," Hetzel Union Building. Dr. J. J. Kaufman, associate professor of economics, on "The Union is a Statesman: A Book Review."
 American Chemical Society meeting, 7:30 p.m., Room 111, Boucke Building. Dr. James H. Freeman, Westinghouse Research Laboratories, on "The Chemistry of Phenol-Formaldehyde Reactions."
 Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Dr. E. P. Nye, associate professor of mechanical engineering, on "A Christian Approach to the Physical Sciences."
 Meteorology seminar, 1:10 p.m., 219 Willard Building. Edward S. Epstein, instructor in meteorology, on "Vertical Velocities in the Stratosphere: A Case Study."

Wednesday, Feb. 19

Seminar sponsored by the University Christian Association, on the theme "College Teaching and the Role of the Professor's Values and Presuppositions," 7:30 p.m., Helen Eakin Eisenhower Chapel. Dr. Neal Riemer, introductory lecture, on "College Teaching and Preaching."

Thursday, Feb. 20

Philosophy Colloquium, 2:30 p.m., Room 5, Sparks. Dr. Walter Kaufmann, professor of philosophy, Princeton University, on "Mysticism."
 Liberal Arts Lecture Series, 8 p.m., Room 121, Sparks. Dr. Walter Kaufmann, professor of philosophy, Princeton University, on "A Critique of Existentialism."
 Meeting of local post of the Society of American Military Engineers, 7 p.m., Room 26, Mineral Science. Capt. Norman J. Drustup, U.S. Navy, will speak on the role of the civil engineer corps in the U.S. Navy.
 Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Christian Science organization in charge.

Friday, Feb. 21

Meeting of College Agriculture faculty, 4:10 p.m., Room 112, Buckout Lab.
 Cosmopolitan Club meeting, 6 p.m., Wesley Foundation. Hon. James E. Van Zandt, on "The Atomic Age."
 Players' production of "Burning Bright," 8:30 p.m., Center Stage.

ASA Elects Officers

Dr. J. C. Griffith, professor of petrography, has been elected president of the Penn State chapter of the American Statistical Association. Other officers are:

Vice-president, Dr. Robert W. Kautz, associate professor of business statistics.

Secretary, Dr. W. S. Ray, associate professor of psychology.

The Association will hold weekly seminars on Friday afternoons during the semester at 4 p.m. in 319, Willard Building.

Ritenour, Wagner Honored In Naming Of Buildings

Two buildings, one yet to be constructed, have been officially named by the Board of Trustees.

The late Dr. Joseph P. Ritenour, for nearly 30 years director of the Health Service, has been honored in the designation of the hospital as "The Ritenour Health Center Building." Dr. Ritenour, a 1901 graduate of Penn State, came to the campus in 1917 as the second director of the health service. He retired in 1946, and died in 1952.

A military science building, for which ground will be broken in the spring, has been named for Lt. H. Edward Wagner, a 1941 graduate of Penn State. He was an outstanding student and leader in activities. He entered the Army in 1941 and was commissioned a second lieutenant in 1942, volunteered for paratroop service and landed in Normandy on "D" Day in 1944, and was killed in action three weeks later.

Lt. Wagner's mother, Mrs. Maude B. Wagner, of Harrisburg, established a scholarship fund following World War II.

Cosmopolitan Club Banquet Has Hon. James E. Van Zandt

The Honorable James E. Van Zandt, representative from the 22nd Congressional District, will be the guest speaker at the annual banquet of the Cosmopolitan Club on Friday, Feb. 21, at 6 p.m. in the Wesley Foundation, East College Ave. and Locust Lane.

Van Zandt will speak on "The Atomic Age."

AAU Admits Penn State

The Board of Trustees has accepted the invitation of the Association of American Universities to become a member of that organization.

The association, which has enrolled only 37 members, also invited Tulane, Purdue, and Iowa State to join, marking the first time in nearly a decade that new members were admitted.

Institutions on the North American continent, the quality of whose graduate work is high and whose claims for inclusion are strong either because of general high standing of their programs or because of the high standing of one or more of their professional schools, are granted admission to the association, which was founded in 1900.

Dr. Hager Named Director Of Adult Liberal Education

Dr. Cyril F. Hager, formerly assistant director of the Educational Planning staff and head of the senior officers course of the Foreign Institute, will be director of the new adult liberal education program.

The program, aided by a \$298,000 grant from the Fund for Adult Education, will offer formal and informal education in humanities, social sciences, the arts, and group discussion leadership, largely through the centers in cooperation with interested community groups.

Dr. Hager received his degrees from the University of Wisconsin. He has served on the faculty of Eastern Kentucky State College, Michigan State, and Syracuse. He has also been director of the American Red Cross in China, India, and Ceylon, and educational adviser to the commandant, U.S. Air Force, at the Air War College, Montgomery, Ala.

In addition to his post as director of the adult program, Dr. Hager has been named professor of speech and social sciences.

Scholarship, Award Grants Announced

A scholarship fund designed to encourage high school graduates to pursue an engineering or scientific education has been set up by John R. Crago, of Clearfield. The scholarship, worth \$350 annually and renewable, will be given to a freshman entering an engineering or science curriculum, preference being given to a Clearfield area resident.

The American Die Casting Institute, Eastern Regional Group, has established a series of awards to be granted to undergraduate or graduate students who submit the best papers on die casting. The papers will be judged by a committee to be named by the head of the department of industrial engineering.

Leaves Approved For Five

Leaves of absence were approved by the Board of Trustees recently. They include:

Dr. Wilford R. Mills, professor of plant pathology, from April 1 to Sept. 30, to work at the InterAmerican Institute of Agricultural Sciences, at San Jose, Costa Rica, in potato disease work.

Dr. Arnold W. Green, professor of sociology, extension of leave from Feb. 1 to Jan. 31, 1959, to write a revision of his text on Introductory Sociology and to work on a new book on Criminological Theory.

George W. Hasslacher, III, and Frederick P. Rimrott, both instructors in engineering mechanics, from Feb. 1 to June 30, to enroll for graduate work.

Silas P. Mansfield, research assistant in geology, Dec. 1 to Feb. 28, for military service.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Poet William Jay Smith Opens Simmons Series

American poet William Jay Smith will open the 1958 Simmons Lecture Series on Tuesday, Feb. 25 at 8 p.m. in Room 121, Sparks Building, with a presentation of "Poetry Readings."

An award-winning poet, Smith has published several volumes of poems, including "Poems, 1947-1957" and two children's books in verse. He has also translated works by the French poet, Valery Larbaud, entitled "Poems of a Multi-millionaire" and "Selected Writings of Jules Laforgue."

Smith won the Young Poets Prize of Poetry Magazine (1945) and was the Phi Beta Kappa poet at Columbia University in 1941. He was a Rhodes Scholar at Oxford University and studied in France and Italy.

This will be the 11th year of the Simmons Series, sponsored by the department of German, and named in honor of Lucretia V. T. Simmons, one-time head of the department of German.

Festival Quartet Program Sunday

The Festival Quartet, four instrumental artists, will present the 11th program of the Artists' Series at 8:30 p.m., Sunday, Feb. 23.

The Quartet is composed of Victor Babin, piano; Szymon Goldberg, violin; William Primrose, viola; and Nikolai Graudan, cello.

An all-Brahms program will be presented, consisting of the Quartet in A major, Opus 26; Quartet in C minor, Opus 60; and Quartet in G Minor, Opus 25.

Christ-Janer Serves As Carnegie Judge

Albert W. Christ-Janer, director of the School of the Arts, served on the jury which selected paintings for the 48th annual exhibit of the Associated Artists of Pittsburgh. The exhibit will be held Mar. 7 to April 17 at the Carnegie Institute galleries.

Leffler, O'Brien, Oldest Grad Die

Dr. George L. Leffler, professor of finance, director of planning and assistant dean of the College of Business Administration, died Feb. 14, in Presbyterian Hospital, Philadelphia.

A member of the faculty since 1937, Dr. Leffler had served the University of Wisconsin, the University of Toledo, and the State of Wisconsin before coming to Penn State. He has been editor of the Pennsylvania Business Survey since 1948 and formerly assistant director of the Bureau of Business Research.

Dr. Joseph F. O'Brien, professor of public speaking, died on Feb. 14 in Bellefonte. He had served as director of the men's debate team for 30 years and had held many high posts in the Pennsylvania Debaters' Convention, Pennsylvania Speech Association, Debating Association of Pennsylvania Colleges, the Pennsylvania Speech Round Table, and the Speech Association of the Eastern States.

Penn State's oldest graduate, Dr. H. B. McDonnell '96, died on Feb. 8. Retired from the faculty of the University of Maryland. Dr. McDonnell was 94.

Druckman Gives Second Paper In UCA Series

Aaron Druckman, associate professor of philosophy, will present the second paper in the series of "The Responsible University in an Age of Crisis" sponsored by the Faculty Committee of the University Christian Association.

Druckman's paper will be given on Wednesday, Feb. 26 at 8:30 p.m., in the main lounge of the Helen Eakin Eisenhower Chapel and is titled, "In What Sense Is a University Responsible in the Field of Values."

The series was opened on Feb. 12 by Dr. H. A. Cutler, and future speakers will be Dr. Roy C. Buck, Dean Merritt A. Williamson, and Dr. Ralph W. Condee. Dean J. R. Rackley is chairman of the program.

Changes In Charter Sought In Courts

Approval of amendments to the University's charter was asked in Centre County Court this week.

One change would increase the elected membership of the Executive Committee of the Board of Trustees from seven to nine. The second would alter the procedure by which alumni members of the Board are nominated and elected.

If the Court "approves in form" the two changes, they will go to the State Council of Education for study and recommendation. If the Council gives assent, the amendments will be returned to the Court for final disposition.

There are nine alumni members on the Board, three being elected annually for three-year terms. Under the amendment, alumni will be eligible to vote one year after graduation or after having left the University, rather than after three years as at present. Also, to be eligible for inclusion in the official mailing list, they will also be required to be members of the Alumni Association or contributors to the Alumni Fund. However, alumni may request ballots although they are not affiliated.

Members of the executive committee of the Board are elected at the annual meeting of the Board in January and serve for one year, or until their successors are chosen. Two ex-officio members of the Board — the president of the corporation and the president of the University — are not affected by the proposed amendment.

Deadline Nears On Return Of Calendar Questionnaire

Faculty members are reminded that the deadline for the return of the questionnaire on the University's calendar system, sent out by the Calendar Committee of the Senate, is March 1.

The questionnaires are to be completed and returned to the Division of Academic Research and Services, 405 Old Main.

Russian Population Shifts, Urban Developments Expand

Dr. Allen Rodgers, associate professor of geography, who has made a special study of population trends in Russia, points out the movement of people eastward in the Soviet Union and the increase in numbers of cities.



TO Americans generally, Russia is Moscow, surrounded by vast areas of cold wasteland where shivering peasants eke out an existence on a collective farm, giving a share of their production to the government for the right to keep on farming.

But to those who study the Soviet Union, such as Dr. Allen L. Rodgers, associate professor of geography, the growth of urban areas in Russia and the transition of many farm people to industrial living has been tremendous in the past 25 or 30 years.

"After the revolution and until the war," Dr. Rodgers points out, "literally dozens of cities of 50,000 or more population sprang up. Since the war the trend has continued, and especially so in the areas east of the Volga. Soviet economic planning has found it desirable to decentralize its industries to the regions where materials are available and to create new industries. Transportation, or rather lack of it, has been a major factor in their decision.

"But even with the tremendous industrial developments taking place, farm acreages have also been greatly expanded. For example, in the last three years, more than 90 million acres of virgin land has been placed under cultivation in what was semi-arid steppes."

The center of population, Dr. Rodgers points out, has shifted eastward in Russia due to these two developments. The population growth overall, since 1940 (after the Baltic States were annexed) has increased only four per cent up to 1956. Obviously, the growth of the Central Soviet region has been at the expense of the western region.

By Russia's somewhat inflated standards, the urban population constitutes 43 per cent of the total (in the U.S., the percentage is 67) and one-fourth live in cities of 50,000 or more (in the U.S., one-third). There are not many cities in the 10,000 to 50,000 class.

"The new areas being opened up," Dr. Rodgers points out, "are being made as self-sufficient as possible, again for transportation reasons. Generally, they are in the richest areas from the standpoint of industrial raw materials. They have their own regional administrative functions in large cities, such as Tashkent (788,000 population) and Novosibirsk (731,000) but, of course, are still responsible to Moscow."

From the standpoint of comfort, of course, many of the newer areas are lacking in the refinements of Moscow.

"But, on the other hand," Dr. Rodgers asks rhetorically "what were those areas like before? The various ethnic groups in those areas prior to this eastward movement had little or nothing in the way of homes, sanitation, or material goods of any kind. True, many of the homes now are prefabricated, because they had to be to get the job done quickly. And in many areas, four or five families will share apartment facilities.

"This is real pioneering, as hard as that of our early settlers. But I found in my visit to Russia last summer that there seemed to be a real pride in this pioneering, or at least that social, political and economic pressures are causing families to forsake the relative advantages of the western regions to move eastward. Obviously the most comfortable living is in Moscow and Len-

ingrad, but not everyone can live in Moscow anyhow."

The virgin lands development program is a real gamble, Dr. Rodgers believes, because it is being carried out in an area where the average rainfall is only 6-12 inches and varies considerably each year. In 1955, crops were poor, but in '56, production was excellent. Last year, however, production was again exceptionally poor. The need for more food is so acute, that the Russians feel justified in taking the gamble.

"Physically the Soviet Union is more like Canada but Russia is trying to adopt the crop practices more suitable to U.S. conditions," Dr. Rodgers says.

The bulk of the population shift eastward has been made by Slavic ethnic groups, but their inclusion in the areas where other ethnic groups have existed seems to be going smoothly. Generally speaking, the economic level has increased in these new areas, as Russia's budget puts emphasis on their development at the sacrifice of the western regions. The pay level and other benefits are generally greater for the Slavic groups.

There are, obviously vast areas of Russia relatively unsettled. When Dr. Rodgers speaks of eastern Russia, he is talking about the area in the central part of the Soviet Union, from the Volga to Western Siberia. Eastward of these are areas which may never be settled. For the near future the present trends, he believes, will continue because the transportation problem is extremely difficult of solution.

Many of the conclusions and data have been obtained by Dr. Rodgers from official Soviet publications. Gen-

erally, he feels, the data can be trusted but that which is suspect can be evaluated with other information to give reliable summaries.

Russian studies are something of a specialty with him, although his work has been in other areas as well. From September, 1955 to July, 1956, he made an on-the-spot geographic study of the industrial structure of the Port of Genoa, Italy, under an Office of Naval Research grant. His visit to Russia last summer, which included travel in Leningrad, Moscow, Soviet Central Asia, the Caucasus, and the Ukraine, was made possible by a grant from the Inter-University Committee on Travel. He also resumed study at Genoa on the return trip, again under a grant from the office of Naval Research.

A strong believer in the need for more attention to Russian affairs, Dr. Rodgers teaches a 400 course in Russian economic geography as part of the Russian Area Program of the University. His own knowledge of the spoken Russian language, acquired at Columbia University, was limited but sufficient to permit him to communicate readily enough on his trip.

"This was partly true," he points out, "because many Russians speak at least some English. There are 10,000,000 people in Russia studying English; there are only 8,000 Americans studying Russian language."

Having been only nine days in Soviet Central Asia, Dr. Rodgers hesitates to generalize about the area. By American standards, he admits, the area is poor; by standards of Czarist times, much advancement has taken place and particularly in contrast to other Asiatic areas. There may be no future Moscows east of the Urals but there are reasons to foresee continued urban development and improved conditions generally.

"The American people," he concludes, "would do well to study even more thoroughly what is going on in the Soviet Union. Moscow, important as it is, is only one indication of the wealth of that vast country."

Grad School Fellowship Applications Due Mar. 1

Faculty members are asked to call to the attention of outstanding advanced graduate students that March 1 is the deadline for the filing of applications for Graduate School fellowships.

The fellowships, reminds Dr. E. B. VanOrmer, are open to students who have completed at least a year of graduate work and are candidates for the doctorate. They provide a stipend of \$2,000 for the academic year, tax free, and with exemption from major fees.

The fellowships may be awarded in any area, although preference is given to areas where other types of aid are less prevalent, such as the humanities and social sciences.

Applications and further information may be obtained at the Graduate School office, Room 104 Willard Building.

Items of Interest

Dr. G. W. Brindley, head of the department of ceramic technology, has received a grant of \$10,000 from the Petroleum Research Fund of the American Chemical Society to aid in a study of the "Formation, Structure, and Properties of Clay-Organic Complexes."

Dr. Edmund V. Mech, assistant professor of psychology, was recently appointed to a sub-committee of the Educational Psychology Division of the American Psychological Association.

An article by Dr. Kent Forster, professor of European history and at present Fulbright lecturer at the University of Helsinki, appears in a feature spot in the Dec. 6 issue of Finland's leading newspaper. The article was an analysis of the non-Finnish point of view of the growth and functioning of Finland's democracy.

Dr. H. Trevor Colbourn, assistant professor of history currently on leave, is author of an article "Thomas Jefferson's Use of the Past" appearing in the January issue of the *William and Mary Quarterly*.

Dr. Clyde G. Corle, associate professor of education, this week conducted a workshop at the Geneseo State Teachers College, on the teaching of elementary school mathematics. He spoke before a group of Latin-American educators assigned to the college for special training.

Donald W. Davis, head of the department of advertising, has been co-chairman of the committee on advertising of the Association for Education in Journalism. The committee will arrange a program for teachers of advertising at the Association's annual convention at the University of Missouri, in August.

Frank D. Hoyt, research assistant in the department of mining, presented a paper titled, "The Utilization of Pennsylvania Slate for Expanded Aggregate" before the 1958 annual meeting of the American Institute of Mining Engineers" this week.

Howard L. Hartman, head of the department of mining, presented a paper yesterday on "Fundamental Studies of Percussion Drilling" before the general mining session of the Society of Mining Engineers of the AIME.

Theodore S. Spicer, professor of fuel technology, was reappointed chairman of the Combustion Committee, Coal Division, Society of Mining Engineers.

Six Lectures In Religion Begin Tuesday, Feb. 25

Stanley Romaine Hopper, dean of the Graduate School and professor of Christian philosophy and letters at Drew University, will open a series of six Lectures in Religion during the spring semester.

He will speak on Tuesday, Feb. 25 at 8:30 p.m. in Room 10, Sparks Building, on "The Vocation of the Heavy Bear."

Other lectures in the series include:

Mar. 20 — Dr. Jacob Taubes, assistant professor of religion, Columbia University, on "Monologue and Dialogue: Secular and Religious Existentialism."

Apr. 10 — Mircea Eliade, chairman, department of religion, University of Chicago, "Yoga and Modern Philosophy."

Apr. 17 — Dr. Douglas Bush, Gurney professor of English literature, Harvard University, on "The Problem of Belief."

Apr. 20 (or 26) — Dr. Charles E. Raven, former vice-chancellor of Cambridge University, on "Science and Religion."

May 1 — Dr. Perry Miller, professor of American literature, Harvard University, on "Puritanism and American Literature."

The lectures by Drs. Bush and Miller are co-sponsored by the Liberal Arts Lecture Series.

Television Classes Enroll Over 5,000

About seven per cent of the undergraduate instruction program on main campus is now being offered via closed-circuit television.

A total enrollment of 5,039 is reported in 15 different subjects (in 19 classes). Last semester only 4,208 were enrolled.

In addition, professional training in techniques of television speaking, acting, and writing is being offered in four classes in speech, theatre arts, and journalism.

A total of 42 hours of classes are being presented each week on the closed-circuit network. For the first time certain courses are being televised in mathematics, zoology, and military science.

Sociology I, taught by Dr. William G. Mather, head of the department of sociology, is being simultaneously telecast over WFBG-TV, Altoona, on Monday, Wednesday, and Friday.

Sixteen rooms in Boucke Building and 15 in Sparks are being used for the telecasts.

Instruction in psychology, sociology, music, military science, zoology, mathematics, air science, economics, education, meteorology, chemistry, accounting, German, and metallurgy is being given via television.

With about 75,000 undergraduate student-courses given each semester, the more than 5,000 being given via television represents a tremendous growth since the program was inaugurated.

Senate Minutes

ANNUAL REPORT OF THE SENATE COMMITTEE ON COURSES OF STUDY

Throughout the academic year the Committee on Courses of Study held monthly meetings, which, with the approach of the April deadline for submission of course and

curriculum material, became bi-monthly. In addition, there was one joint meeting of the Senate Committee on Courses of Study with the Graduate School Courses of Study Committee to deal with special problems of common concern, particularly regularization in conception and content of the courses in the 400 series offered for the Science Institute Program. Likewise after joint discussion there was adopted a proposal to discontinue approval of courses for Summer Sessions only and to change courses previously so approved either by authorizing them for "Regular" semesters or by dropping them.

Actions of the Senate Committee are summarized in the following tables:

COURSE ACTIONS, 1956-57

College	Added				Dropped				Changed				Total Action
	Under-Grad.	400	500	700	Under-Grad.	400	500	700	Under-Grad.	400	500	700	
Ag.	3	1	1	1					9	14	10		38
Bus. Ad.	1	1		1					5	4	1	1	14
C & P	2	3	10	2			3		2	13			36
Ed.									1	4	2		7
E & A	19		6	25	17	3		12	19	11	3	27	142
Gen. Ed.	8												8
H. Ec.				1					1				2
L. A.	2	13	4		86*	7*	14*		65*	46*	17*	1	254
M. I.		5	4	30	5	4	2	19	7	12	4	20	113
Ph. Ed.	6				1	1			16	2			26
R. O. T. C.									2				2
	42	23	25	59	109	15	19	31	127	106	38	49	642

*Figures given for courses dropped and changed include 92 changes as a result of proposals to alter the listing in music so that, for example, Music 11-18, which was approved for one credit per course, now appears as Music 11 for one credit each for eight semesters and Music 18 for two credits each for eight semesters. Through this action the intervening numbers were dropped, but the two retained have separate and distinct descriptions.

* * *

The figures in the foregoing table may be corrected to include the blanket action upon courses heretofore approved only for Summer Sessions, according to which it was requested by joint-action of the Senate Committee on Courses of Study and the Graduate School Courses of Study Committee that such courses be either recommended for approval also for regular sessions or else dropped; thus the totals would read:

College	Added				Dropped				Changed				Total Action
	Under-Grad.	400	500	700	Under-Grad.	400	500	700	Under-Grad.	400	500	700	
	42	23	25	59	159	39	20	31	146	121	43	50	758

Actions Relative To Programs of Study, Including Curriculums, Majors, Options, And Others 1956-1957

College	Add	Drop	Change	Tot.
Agr.	2	0	2	4
B.S. Adm.	0	0	4	4
Chem. & Phys.	0	0	0	0
Education	1	0	3	4
Eng. & Arch.	4	0	20	24
Home Econ.	0	0	0	0
Lib. Arts	0	0	4	4
Min. Ind.	1	0	13	14
Phys. Ed.	0	0	4	4
	8	0	50	58

The effect of all course actions upon University catalogues may be noted: In the current issues (1957-58) the Undergraduate Catalogue includes 2139 courses (including those in the 400-series) and the Graduate School Announcement contains 934 courses (excluding not only those in the 400-series but also those designated as approved for Summer Sessions only). Because of changes approved in the current academic year and indicated in the first table above the next issues of the two catalogues will contain respectively 2052 and 939 courses.

It should be noted, however, that this reduction in the total number of courses offered will not reduce the size of the Undergraduate Catalogues; rather, the reverse will result, because of the special circumstances involved in the changes in music courses as explained

above and also because of the necessity of printing those courses, formerly approved for Summer Sessions only, which are now approved for the regular semesters.

Among policy proposals adopted by the Senate upon recommendation of the Committee, in addition to those providing for the discontinuance of approval of courses for Summer Sessions only and for the regularization of the courses constituting the Science Institute Program, is one establishing the permissibility for purposes of experimentation to depart from officially approved course content as indicated by title and description on condition that such experimentation be limited to one or two semesters at the most and that the Committee be advised in advance of the intention thus to experiment.

The Committee deferred discussion until the next academic year of the question of the precise nature of courses in the 400 series, which by Senate action on February 12, 1948, are officially defined as "graduate courses in fact as well as in name". In recommending future discussion of this subject the Committee wishes to invite the attention of members of the Senate not only to the question of the proper caliber of courses in the 400-series but also, in the light of some agreement on this question, to that of the desirable number of such courses which may be required in the last two years of undergraduate curriculums.

Respectfully submitted,

Philip A. Shelley, Chairman

required for unsponsored research, is provided free of charge.

The Computer Policy Committee adopted, on Mar. 22, 1957, the following policy: "Outside sponsored research shall always make provisions in the contractual arrangement so that they may pay for the work undertaken or the work will not be carried out on the computer."

PENNSTAC is operated as a University-wide facility. For further information about the computer and problems, call Ext. 2142.

Calendar

Friday, Feb. 21

Meeting of College Agriculture faculty, 4:10 p.m., Room 112, Buckhout Lab.
Cosmopolitan Club meeting, 6 p.m., Wesley Foundation, Hon. James E. Van Zandt, on "The Atomic Age."
Players' production of "Burning Bright," 8:00 p.m., Center Stage.
American Statistical Association meeting, 4 p.m., Room 319, Willard Building.

Saturday, Feb. 22

Varsity gymnastics, 8 p.m., Rec Hall.
Players production of "Burning Bright," 8 p.m., Center Stage.

Sunday, Feb. 23

Roman Catholic Mass, 9 a.m., Schwab Auditorium.
Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.
Chapel Service, 10:55 a.m., Schwab Auditorium. The Very Rev. John B. Coborn, Dean, Episcopal Theological Seminary, Cambridge, Mass.
Artists' Series program by The Festival Quartet, 8:30 p.m., Schwab Auditorium. All Brahms program.

Monday, Feb. 24

Engineering Mechanics seminar, 4:10 p.m., Room 203 Engineering "A", Dr. Henri Marcus, special lecturer in engineering mechanics, on "Representation of Three-Dimensional Deformations."
Faculty Luncheon Club, 12 noon, Dining Room "A", Hetzel Union Building. Warren S. Smith, associate professor of theatre arts, on "The Artist in the Community of Scholars."
Mineral Economics Seminar, 4:10 p.m., Room 121, Mineral Industries. Dr. R. H. Waters, professor of transportation, on "Transportation of Natural Gas."
Meeting of faculty of the College of Physical Education and Athletics, 7 p.m., Room 214, Recreation Building.

Tuesday, Feb. 25

Plant Science Club meeting, 7:30 p.m., Room 111, Tyson Building. Dr. Paul F. Norton, associate professor of the history of art and architecture, on "Stone Henge." Open to the public.
Physics Colloquium, 4:10 p.m., Room 117, Osmond Lab. Dr. Donald E. Kline, research physicist, Haller, Raymond and Brown, on "Energy Deposition in Reactor Radiation."
Biology Research Club meeting, 8 p.m., Room 112, Buckhout Lab. Dr. Carl Lamanna, director of the Naval Biological Laboratory and professor of bacteriology, University of California, on "Scientific Problems in the Study of Botulin Toxins." Open to the public.
Meteorology Seminar, 1:10 p.m., Room 219, Willard Building. Dr. Alfred K. Blackadar, associate professor of meteorology, on "Mesometeorological Phenomena Related to Low Level Wind Regimes."
Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. W. L. Kjelgaard, assistant professor of agricultural engineering, on "Facts and Faith."
First of "Lectures in Religion," 8:30 p.m., Room 10, Sparks Building. Dr. Stanley Romaine Hopper, dean of the graduate school, Drew University, on "The Vocation of the Heavy Bear."

Wednesday, Feb. 26

Second paper in UCA series on "The Responsible University in an Age of Crisis," 8:30 p.m., Helen Eakin Eisenhower Chapel. Aaron Druckman, associate professor of philosophy, on "In What Sense Is a University Responsible in the Field of Values."
Forestry Convocation, 11 a.m., Room 121, Sparks Building. R. I. Ashman, formerly head, department of forestry, University of Maine, illustrated lecture on "Impression of European Forestry."

Thursday, Feb. 27

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Reformed Service, Rev. Donald McIlvride in charge.

Friday, Feb. 28

Players production of "Burning Bright," 8 p.m., Center Stage.
American Statistical Association meeting, 4 p.m., Room 319, Willard Building.

Fee Schedule Set For PENNSTAC Computer

A schedule of fees for service computation with PENNSTAC, the University's computer facility, has been announced.

Programming will be charged at the rate of \$5.00 per hour, tape preparation at \$2.00 per hour, and machine computation at \$50.00 per hour.

Educational computation, such as class demonstrations, non-sponsored thesis computation, and computation

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Ticket Sale Planned For Faculty-Trustee Dinner

Tickets are now on sale for the annual Faculty-Trustee dinner on Mar. 27 in the Hetzel Union Building. The dinner is sponsored by the American Association of University Professors.

Representatives of the various colleges handling tickets for the occasion include (with their extension numbers):

L. P. Greenhill (Administration) 2531
R. C. Buck (Agriculture) 674
F. A. Babione (Bus. Adm.) 2018
R. G. Stoner (Chem.-Phy.) 2139
D. W. Russell (Education) 2407
J. H. Moore (Engineering) 2218
Gilma Olson (Home Econ.) 2250
J. W. Markham (Lib. Arts) 2450
C. L. Hosler (Min. Ind.) 2692
E. C. Bischoff (Phys. Ed.) 2167
L. D. Tukey (ROTC) 609
Mildred Ailman (Library) 517
Joseph Intorre (Gen. Ext.) 2549
R. E. Zindler (Ordinance Lab) 2337

Wives are welcome for the dinner. Sales of tickets will be on a first come, first served basis. All ticket sales will be completed by Mar. 24. If checks are used, they should be made payable to the AAUP.

Language Exams Listed

Foreign Language examinations will be held on Monday, Mar. 3, at 7 p.m. German exams will be given in Rooms 1 and 2, Sparks Building, and those in French and Spanish in Room 316, Sparks. The German conflict exam will be held on Tuesday, Mar. 4 at 7 p.m. in Room 1, Sparks.

Nichols' Book Selected For Book-of-Month Club

"Towards Gettysburg — A Biography of Gen. John F. Reynolds," by Dr. Edward J. Nichols, professor of English composition, has been selected by the Civil War Book Club as its book-of-the-month for July.

The book is the first published by The Pennsylvania State University Press.

The original publication date of April 15 has been changed to July 20 as a result of the selection.

Research Group To Aid In Charting Future

The University today engaged a professional research organization to join its own personnel in a study designed to chart, "a realistic range of the educational demands likely to be made on the University in the next decade."

President Eric A. Walker, pointing out that many trustees are convinced that the long range prospectus which envisions a total enrollment of 35,000 in 1970 is too conservative, said the new study would endeavor to find "ways and means of marshaling the human, physical and financial resources needed to undertake the unprecedented job outlined in the original report."

President Walker sees as among the benefits to be derived from such a study the preparation of a priority list on educational and research needs, and recommendations on how the University might best improve its working relationships with the many groups which look to it for instruction and research. Retained to do the job in cooperation with University personnel is Institute of Communications Research, Inc., New York City.

Dublin Players Tickets On Sale At HUB Next Week

Faculty and other non-students may purchase tickets on Wednesday and Thursday, Mar. 5 and 6, for the 12th Artists' Series program to be given by The Dublin Players.

Tickets are priced at \$1.25 and may be secured at the main desk of the Hetzel Union Building.

The Dublin Players will present "Juno and the Paycock" on Saturday, Mar. 8 at 8:30 p.m. in Schwab Auditorium.

Senate Meets Thursday

The University Senate will meet on Thursday, Mar. 6 at 4:10 p.m. in the Assembly Room of the Hetzel Union Building.

Anouilh Comedy Listed Mar. 4-6

Jean Anouilh's three-act comedy, "Ring Round the Moon," will be presented as a thesis production Mar. 4, 5, and 6 in the Little Theatre, Old Main, at 8 p.m. each night.

Delmar D. Hendricks, graduate student in theatre arts, directs the play in partial fulfillment of the requirements of the master of arts degree.

The adaptation of the French comedy is by Christopher Fry, who terms it a "charade with music". It is being presented in co-operation with International Theatre Month.

There is no admission charge. Tickets may be obtained at the office of the department of theatre arts in Schwab Auditorium, or at the door.

Second Dinner-Lecture In UCA Series Tomorrow Night

The Rev. Dr. Colin Williams, assistant professor of historical theology at Garrett Biblical Institute, the Methodist Seminary in Evanston, Ill., will give the second lecture in the current UCA-sponsored series on "The Historic Christian Faith and Contemporary Man," tomorrow.

The dinner-lecture series is held in Dining Room "A" of the Hetzel Union Building, at 6:30 p.m. The buffet dinner costs \$1.00, and only 60 reservations can be accepted. Deadline for reservations is today (Friday) at noon and they may be made at the UCA office in the Helen Eakin Eisenhower Chapel.

Textile Expert Joins Staff

Dr. Jules Labarthe, professor of textile technology at Carnegie Institute of Technology, has been appointed visiting professor in the College of Home Economics.

A graduate of the University of California, Dr. Labarthe received his doctorate degree from the University of Pittsburgh. He has been senior fellow at the Mellon Institute, is the author of many journal articles on textile standards and consumer acceptance.

They Say . . .

(The following are excerpts from an address given by President Eric A. Walker before the Pennsylvania Manufacturers' Association annual meeting in Philadelphia on Tuesday, Feb. 25.)

In the past, most operating funds for Pennsylvania's institutions of higher education have come from private sources. This stems naturally from the fact that 109, or 87 per cent, of Pennsylvania's colleges and universities are private or state-aided institutions. This compares with a national figure of 64 per cent. In Pennsylvania, Penn State and the state teachers' colleges enroll about 26 per cent of the full-time students in the state. Nationally, public institutions enroll almost 60 per cent of all the students.

. . . Pennsylvania's colleges and universities will have to jump their annual expenditures by at least \$87,000,000 by 1970 and perhaps by as much as \$285,000,000 in 1957 dollars just for increases in full-time resident instruction. It does not take into account desperately needed salary adjustments, nor does it consider the part-time students, an increase in the research effort, or an expansion of extension activities. In fact, it very much looks as though the total bill for higher education in Pennsylvania might go even higher, by 1970, than the annual income from the state liquor stores.

. . . For example, the 11 northeastern states spend less than \$6 out of each \$100 of tax revenue for running their public colleges and universities. The 11 far western states, on the other hand, spend almost \$12.50 out of each \$100 in taxes they collect in this way. Pennsylvania's comparable figure is \$3.55.

. . . In Pennsylvania, the student or his parents paid, in 1952, 65c out of each dollar of his educational costs, the Commonwealth paid 7c, and 28c came from corporate giving, philanthropy, and other such private sources . . . For comparison . . . in West Virginia, 38c of the educational cost dollar came from the parents, 54c from the state, and only 8c from philanthropy; in Indiana, 37c came from the parents, 54c from the state, and 9c from philanthropy; and in California, 35c came from the parents, 57c from the state, and 8c from philanthropy.

. . . We started our 1957-59 biennium at Penn State last July with an appropriation from the Commonwealth of almost \$30,000,000. Of course, we have already spent some of that money. But in just these first six months, over a quarter of a million dollars of the balance has evaporated into the thin air of inflation. I shudder to think how much further it might shrink in the next 18 months. But we have no way of replacing these losses. We simply have to live with them.

To the Faculty and Staff:

The first report of the University's Administrative Committee on Long-Range Development must now be implemented by a number of specific decisions on policy and procedures. Each of these decisions will directly concern several areas of University operation, and should reflect the combined judgment of the groups involved. To insure optimum results, the long-range reports and recommendations of all University committees, groups and agencies will be referred to the Long-Range Committee for integration with findings in related operational areas. This process of coordination will be expedited if the Deans and other administrative officers, the chairmen of the Senate and other faculty and staff committees, and the directors of specific task forces keep the Long-Range Committee fully informed of their activities and, where possible, draw it into their deliberations.

All formal contacts with the Committee should be made through its chairman, Vice President C. S. Wyand, 201 Old Main, telephone extension number 424.

E. A. Walker

February 28, 1958

Orientation Week Suggestions Sought

Individuals or groups having suggestions of new ideas or projects for Orientation Week next September are asked to forward such suggestions now so they may be considered at a planning meeting on Mar. 7.

The ideas should be sent to the subcommittee on orientation of the Administrative Committee on Student Affairs, by way of Dean Harold W. Perkins, 109, Old Main.

Device Aids Air Force In Missile-Tracking

A device for aiding in the calculation of electron density of the ionosphere, of great value in missile-tracking, has been developed by Dr. E. R. Schmerling, assistant professor of electrical engineering in the Ionosphere Research Laboratory.

In missile tracking, corrections for the bending of radio waves in the ionosphere must be made, and this can only be done if the current conditions of the ionosphere are known. Previously, much of the analysis work had to be done by digital computers.

Dr. Schmerling's research is supported by a one-year grant of \$4,600 from the Air Force Missile Test Center, Patrick Air Force Base, Cape Canaveral, Fla.

The devices, called "nomograms" or "sliders", have already been ordered by the Air Force for stations at Cape Canaveral, Grand Bahama Island, and San Salvador Island.

Items of Interest

Dr. Wolfgang E. Meyer, professor of mechanical engineering, is project coordinator of a newly-established Automotive Safety Project in the College of Engineering and Architecture. Improvement in braking techniques for trucks and cars is the main item on the agenda of the project, which is supported by State funds.

* * *

Dr. Robert W. Taft, Jr., professor of chemistry recently addressed the Columbia University Chemistry Seminar and also the technical group of the research laboratories of the American Cyanamid Co.

* * *

Wesley P. Winter, assistant professor of industrial engineering, is preparing a series of articles on practical sand conditioning for "Sand Conditioning Topics," a magazine published by the Royer Foundry and Machine Co.

* * *

A paper by Alan B. Draper, assistant professor of industrial engineering, originally published in the ASTM Bulletin of July, 1957, has been reprinted in "Metal Treatment and Drop Forging," published in London, England.

* * *

Dr. Douglas N. Jackson, assistant professor of psychology, is co-investigator in a study on "Some Relationships Between Intellectual Abilities and Personality Organizations" under a \$3,352 grant from the National Institute of Mental Health of the U.S. Public Health Service.

* * *

Donald S. Pearson, associate professor of electrical engineering, is the author of a book entitled "Creativeness for Engineers" (A Philosophy and Practice) recently published by Edwards Bros., Inc., Ann Arbor, Mich.

* * *

Dr. Herbert R. Glenn, University physician, was one of the speakers on the program of the Pennsylvania College Health Conference at Temple University Wednesday and Thursday.

* * *

Chester Linsky, associate professor of industrial engineering, is author of the feature article in the current issue of "Tool Engineer," a publication of the American Society of Tool Engineers. The article is titled "Industry's Responsibility for More Engineers."

* * *

Dr. H. B. Couch, assistant professor of plant pathology, is presenting a lecture today before the division of mycology of the New York Academy of Sciences, on "Alteration of Disease Proneness in Plants."

TOTAL (FULL-TIME AND PART-TIME) ENROLLMENT AT UNIVERSITY PARK ONLY BY COLLEGE, 1955-1970

This breakdown of enrollment as projected by the Administrative Committee on Long Range Development is presented in response to many inquiries regarding future enrollment by Colleges. These figures are now in the hands of the Deans of the various Colleges for continued study and are subject to change as new conditions prescribe.

Year	Undergraduate (1)			Graduate			All Students		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
College of Agriculture									
1955	1,179	115	1,294	218	21	239	1,397	136	1,533
60	1,364	172	1,536	241	30	271	1,605	202	1,807
65	1,437	205	1,642	294	34	328	1,731	239	1,970
1970	1,675	275	1,950	360	40	400	2,035	315	2,350
College of Business Administration									
1955	1,201	126	1,327	30	..	30	1,231	126	1,357
60	1,582	361	1,943	62	11	73	1,644	372	2,016
65	1,719	495	2,214	134	18	152	1,853	513	2,366
1970	2,215	785	3,000	225	25	250	2,440	810	3,250
College of Chemistry and Physics									
1955	734	54	788	194	9	203	928	63	991
60	927	86	1,013	244	18	262	1,171	104	1,275
65	1,007	105	1,112	349	19	368	1,356	124	1,480
1970	1,255	145	1,400	480	20	500	1,735	165	1,900
College of Education									
1955	460	880	1,340	296	120	416	756	1,000	1,756
60	512	1,070	1,582	378	192	570	890	1,262	2,152
65	550	1,140	1,690	565	285	850	1,115	1,425	2,540
1970	586	1,414	2,000	800	400	1,200	1,386	1,814	3,200
College of Engineering and Architecture									
1955	2,760	73	2,833	111	..	111	2,871	73	2,944
60	3,142	120	3,262	160	8	168	3,302	128	3,430
65	3,305	147	3,452	262	9	271	3,567	156	3,723
1970	3,796	204	4,000	390	10	400	4,186	214	4,400
College of Home Economics									
1955	152	583	735	..	52	52	152	635	787
60	190	937	1,127	8	103	111	198	1,040	1,238
65	200	1,100	1,300	27	190	217	227	1,290	1,517
1970	223	1,577	1,800	50	300	350	273	1,877	2,150
College of Liberal Arts									
1955	804	653	1,457	125	63	188	929	716	1,645
60	1,263	1,130	2,393	161	89	250	1,424	1,219	2,643
65	1,402	1,403	2,805	245	116	361	1,647	1,519	3,166
1970	2,008	1,992	4,000	350	150	500	2,358	2,142	4,500
College of Mineral Industries									
1955	510	8	518	179	3	182	689	11	700
60	594	9	603	217	8	225	811	17	828
65	631	10	641	294	9	303	925	19	944
1970	739	11	750	390	10	400	1,129	21	1,150
College of Physical Education									
1955	146	100	246	19	8	27	165	108	273
60	203	137	340	41	29	70	244	166	410
65	223	158	381	89	61	150	312	219	531
1970	296	204	500	150	100	250	446	304	750
Division of Counseling									
1955	579	88	667	..	..	..	579	88	667
60	696	267	963	..	..	..	696	267	963
65	726	369	1,095	..	..	..	726	369	1,095
1970	885	590	1,475	..	..	..	885	590	1,475
Total Enrollment, University Park Only									
1955	8,525	2,680	11,205	1,172	276	1,448	9,697	2,956	12,653
60	10,473	4,289	14,762	1,512	488	2,000	11,985	4,777	16,762
65	11,200	5,132	16,332	2,259	741	3,000	13,459	5,873	19,332
1970	13,678	7,197	20,875	3,195	1,055	4,250	16,873	8,252	25,125

(1) Includes special students

Home Ec Spring Weekend Planned For April 18, 19

The ninth annual Spring Week-End of the College of Home Economics will be held April 18 and 19, with the theme "Clothing and Textiles for Today's Families."

Specialists from industry, retail stores, consumer groups, fashion experts, and clothing and textile home economists will participate in the program.

Vance Packard, Penn State graduate and author of the book "The Hidden Persuaders," will be the featured speaker of the two-day program.

Lectures, demonstrations, movies and exhibits will open on Friday, April 18 at 9 a.m. and continue until 10 p.m., and on Saturday, April 19, will continue from 9 a.m. to 5 p.m.

Plant Science Club Lists Future Speakers

The Plant Science Club has announced the speakers for its next three programs, all of which are open to the public.

On Mar. 11, Dr. R. E. Stover, assistant professor of psychology, will speak on "Motivating Man to Work."

On Mar. 25, John A. Fox, instructor in aeronautical engineering, will speak on "Fundamentals of Rocketry and Earth Satellites."

On April 15, Dr. W. H. Gray, professor of Latin American history, will speak on "By Car Over the Highway to Alaska." This will be an illustrated talk.

The Plant Science Club meetings are held in Room 111, Tyson Building, at 7:30 p.m. The Club attempts to provide a program of broad, general interest.

Films Listed For Preview

Materials listed below have been requested. Please call Extension 2051 and give code number of those you would like to see; you will be notified when they arrive so that you can arrange a preview showing in Room 9, Library.

- F-1 Bayeux Tapestry filmstrip
- F-2 Industry's Decisive Decade
- F-3 A Time out of War (Civil War episode)
- F-4 Peace-loving Switzerland
- F-5 Tembo's Neighbors (primary nature study)
- F-6 Melosis
- F-7 Child as a Potter
- F-8 Design in Silver
- F-9 Enameling on Copper
- F-10 The Princess in the Tower (intercultural understanding)
- F-11 Atom Comes to Town (peaceful uses of atomic energy)
- F-12 Dynamic Posture
- F-13 Howard (insecurity of adolescents)
- F-14 Joe and Roxy (inadequate home life; effect on adolescents)
- F-15 Who Is Sylvia? (lack of communication between adolescent and parents)
- F-16 IE-2 A Multiple View Time Study Rating Film
- F-17 IE-1 A Time Study Rating Film
- F-18 Making a Work Sampling Study
- F-19 Bridges (primary science)
- F-20 Proud Years (steps to ease problems of old age)
- F-21 Bird Neighbors
- F-22 Story of Our Number System
- F-23 Rubber in Today's World
- F-24 Animals with Backbones
- F-25 The Big Sun and Our Earth

Concert Association Plans No Programs For Next Year

No programs will be scheduled by the State College Concerts Association in the 1958-59 academic year, directors of the Association have announced.

The two remaining programs of the current season—Andres Segovia, on Mar. 31, and the Roger Wagner Choral, on April 8—will be held.

Lack of support of the series is given for the decision not to schedule programs next season. The membership campaign for the coming season fell 300 short of the goal considered necessary for the best possible series. The University Artists' Series purchased the remaining tickets for distribution to students.

The Association will continue in existence with its present officers: Mrs. Frances F. Forbes, president; Earl B. Stavely, vice-president; Mrs. William Hajjar, secretary; and Edmund H. Umberger, treasurer.

Graduate Housing Approved For Woman's Building In Fall

Woman's Residence Hall, built in 1889 and designated then as Ladies Cottage, is to become the residence of single men and women graduate students in the fall.

The building will become known as Graduate Residence Hall.

This is the first time the University has attempted to provide campus housing for unmarried graduate students.

Plans to house 45 unmarried men in the east wing of the building and 34 unmarried women in the west wing have been accepted by the Board of Trustees. It is expected that a married graduate student couple will occupy the hostess suite in the building.

Geneticist Joins Staff Of Pasture Research Lab

Dr. Arne W. Hovin, former research assistant at the University of California at Los Angeles, has joined the staff of the U.S. Regional Pasture Research Lab as geneticist.

Dr. Hovin came to the United States in 1952 after serving with the College of Agriculture at Vollebakk, Norway. He completed his work for the doctor of philosophy degree in horticultural science at U.C.L.A.

Eisenhower Adviser Will Address Career Day Program

Dr. Raymond J. Saulnier, economic adviser to President Dwight D. Eisenhower, will headline the annual Career Day program of the College of Business Administration on Thursday, Mar. 13. He will deliver an address at 8 p.m. in Schwab Auditorium.

At 2 p.m., a series of panel discussions will be held dealing with the fields of accounting, insurance and finance, economics and labor, management, marketing, and transportation.

Calendar

Friday, Feb. 28

College of Agriculture Forum, 4:10 p.m., 112 Buckhout Laboratory. Dr. Russell B. Dickerson, associate dean, on "Agriculture in the Philippines," illustrated.

Players' production of "Burning Bright," 8 p.m., Center Stage.

American Statistical Association meeting, 4 p.m., 319 Willard Building.

Saturday, Mar. 9

UCA-sponsored dinner-lecture, 6:30 p.m., dining room "A", Hetzel Union Building. Dr. Colin Williams, assistant professor of historical theology, Garret Biblical Institute, on the theme, "The Historic Christian Faith and Contemporary Man."

Varsity gymnastics, 2 p.m., versus Pittsburgh, Rec Hall.

Varsity wrestling, 8 p.m., versus Pittsburgh, Rec Hall.

Players' production of "Burning Bright," 8 p.m., Center Stage.

Sunday, Mar. 2

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Helen Eakin Eisenhower Chapel. Rev. Dr. Colin Williams, assistant professor of historical theology, Garret Biblical Institute, Evanston, Ill.

Monday, Mar. 3

Faculty Luncheon Club, 12 noon, Dining Room "A", Hetzel Union Building. Charles R. Marsh, associate professor of electrical engineering, on "Turnpike Fog Problems."

Graduate School Lecture by Dr. H. Bentley Glass, professor of biology, Johns Hopkins University, on "New Horizons in Human Genetics," 8 p.m., Room 121, Sparks Building.

Mineral Economics Seminar, 4:10 p.m., Room 121, Mineral Industries. W. G. Jaworek, on "Natural Gas Price Regulation."

Engineering mechanics seminar, 4:10 p.m., Room 203, Engineering "A", Dr. Henri Marcus, special lecturer in engineering mechanics, on "Stability of Closed Beams."

Tuesday, Mar. 4

Joint Physics-Engineering Mechanics Colloquium, 4:10 p.m., Room 117, Osmond Lab. Dr. Henri Marcus, special lecturer in engineering mechanics, on "Wave Propagation in Finite Media."

Meteorology Seminar, 1:10 p.m., Room 219, Willard Building. Edward S. Epstein, instructor, department of meteorology, on "Instability Criteria for the Breakdown of the Polar Vortex."

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Rev. Preston N. Williams, assistant chaplain, on "Love and Suffering."

Thesis production of Jean Anouilh's play, "Ring Round the Moon," 8 p.m., Little Theatre, Old Main. No admission charge.

Economics Seminar, 12 noon, dining room "B", Hetzel Union Building. Dr. George E. Brandow, professor of agricultural economics, on "The Joint Economic Committee and the Role of the Economist in the Determination of Public Policy."

Wednesday, Mar. 5

Thesis production of Jean Anouilh's "Ring Round the Moon," Little Theatre, Old Main, 8 p.m.

Academic Year Institute Colloquium, 4:10 p.m., Room 109, Armsby Building. Dr. Henry A. Finch, professor of philosophy, on "What Is Man?"

Thursday, Mar. 6

University Senate meeting, 4:10 p.m., Assembly Room, Hetzel Union Building.

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Rev. Arthur L. Ruths, Lutheran campus pastor, in charge.

Thesis production of Jean Anouilh's "Ring Round the Moon," 8 p.m., Little Theatre, Old Main.

Liberal Arts Research Luncheon, 12 noon, dining room "A", Hetzel Union Building. Dr. Ruth C. Silva, associate professor of political science, on "The Presidential Succession."

Friday, Mar. 7

Mineral Industries Colloquium, 4:10 p.m., Mineral Sciences Auditorium. Dr. J. D. MacKenzie, ceramic studies section, General Electric Corp., on "Physico-chemical Studies of Some Glass-Forming Liquids."

Preliminary competition, Eastern Intercollegiate Gymnastic League championships, 7 p.m., Rec Hall.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Total Enrollment Given As 18,029 For Spring

A grand total of 18,029 students enrolled for the Spring semester on main campus and at various off-campus facilities, latest figures released by the office of the Dean of Admissions show. The figure compares with 19,265 in the fall semester.

The total full-time undergraduate enrollment on main campus is 12,192 and at centers and Mont Alto is 3020, for a total of 15,212. The full-time graduate enrollment on main campus is 550, with no full-time graduate students registered off-campus.

The complete summary is given on pages 2 and 3 of this issue.

Tickets Available For Rise Stevens Concert

Faculty members and other non-students may purchase tickets for the concert to be presented on Sunday night, Mar. 16, by Rise Stevens, mezzo-soprano, at the Hetzel Union Building desk on Thursday and Friday, Mar. 13 and 14. They are priced at \$1.00.

Miss Stevens will present her program at 8:30 p.m. in Recreation Building as the thirteenth concert on the Artists' Series.

Violet Welles Play Premieres Tonight

The Penn State Players production of Violet Welles' new play, "The Boy on the Beach," will open tonight at Center Stage at 8 p.m. It will be given tomorrow night also and each weekend until April 12, with the exception of Easter holiday weekend, Apr. 4 and 5.

A sophisticated modern comedy-drama of the Fire Island set, the production is directed by Kelly Yeaton, associate professor of theatre arts.

Mrs. Welles studied play writing under Warren S. Smith, associate professor of theatre arts. She is described as one of the "ten most highly talented" of the New Dramatists playwrights.

Gymnastics Championships Begin In Rec Hall Tonight

The 31st annual Eastern Intercollegiate Gymnastic League championships begin tonight at 7 p.m. in Recreation Building.

Only individual titles are decided in the meet, which will draw entries from the six members of the League—Penn State, Army, Navy, Pittsburgh, Syracuse, and Temple—and from non-member teams, West Virginia, Springfield, and Massachusetts.

Competition this evening will involve preliminaries of tumbling, side horse, rope climb, horizontal bar, rings, parallel bars, long horse and still rings.

The finals will be held tomorrow afternoon, beginning at 1:30 p.m. Reserved seats for the two sessions are \$1.00 and unreserved seats are 50c.

Ag Chemists Make Major Find In Metabolism Field

A major breakthrough in scientists' understanding of the synthesis, transport, and breakdown of lipids in plants and animals, including man, has been provided by the identification of a phosphorus-containing fat by Drs. Andrew A. Benson and Bunji Maruo, associate professors of agricultural and biological chemistry.

The phospholipid—called phosphatidyl glycerol—is found in a wide variety of plant leaves and in animal fats. The identification may lead to the unraveling of many mysteries concerning phospho-lipids and explain the inconsistencies in previous experiments on the synthesis of sugars by plants.

The discovery is considered of major importance in the study of phospholipids, which make up a significant fraction of nerve tissue, seeds, green chloroplasts of plant cells, and many other structures.

Dr. Benson reported on the research at the International Conference on the Uses of Radio Isotopes in Paris, France, last fall and also at the International Symposium on Enzymes in Japan.

Dublin Players In Schwab In Juno And The Paycock

The Dublin Players will present "Juno and the Paycock" at 8:30 p.m., Saturday, Mar. 8, in Schwab Auditorium as the 12th program on the Artists' Series.

The group was organized in 1947 to tour Ireland and was an immediate success. In 1951-52, a tour of this country was arranged and the group has been returning to this country each year since that time.

Julia Brill Named Woman Of The Year

Julia Gregg Brill has been named the Penn State Woman of the Year for 1958, the first to receive the special award which was established last year by the Board of Trustees.

Miss Brill, who has served the University since her graduation in 1921, is now retired and living in State College and is active in the Retired Staff Club. She joined the staff in 1924 as instructor in English and served on the faculty until 1954, when she retired as professor emerita. She was vocational counselor of women students in the College of the Liberal Arts for many years and assisted many undergraduates in extra-curricular activities. She was adviser to her sorority, Alpha Chi Omega, and continues as an active alumna.

When the Penn State Alumni Association was reorganized in 1930, she was named to its first executive board. She served on the board for 20 years, retired briefly, and is again serving. She has been vice-president of the Association several times and president of the Alumnae Club of Centre County.

The award is presented to "a woman whose personal life, professional achievements, and community service exemplify the objectives of her Alma Mater."

The formal presentation will be made during the Alumni Institute, June 13-14.

Registrar Reports on Total Campus Enrollment for Spring Semester, 1957-58

	1 Sem	2 Sem	3 Sem	4 Sem	5 Sem	6 Sem	7 Sem	8 Sem	Total
AGRICULTURE									
ABCh	—	13	1	2	—	7	—	12	35
AERS	—	10	—	12	2	5	3	7	39
AgEd	4	53	5	32	9	34	6	38	181
AgJ	—	—	—	1	—	—	—	3	4
Agro	1	5	1	3	1	7	1	8	27
AH	2	29	3	37	5	21	3	26	126
Bact	—	8	1	6	—	4	3	15	37
BPP	—	2	—	—	—	—	—	—	2
Consv	—	1	—	1	—	3	2	1	8
DSc	1	30	1	19	3	26	5	29	114
GnAg	1	18	4	8	1	13	—	17	62
Hort	—	11	1	13	1	13	2	15	56
LArch	—	4	1	11	2	15	3	18	54
MedT	—	30	—	10	1	15	1	11	68
PH	—	1	—	2	—	1	1	2	7
PV	2	31	—	18	6	11	—	1	69
ZE	—	9	—	18	4	12	1	12	59
2AG	1	11	2	7	—	1	—	—	22
School of Forestry									
For	—	2	1	61	5	50	4	60	183
WU	—	—	—	2	—	7	2	8	19
Total	12	268	21	263	40	248	37	283	1172
BUSINESS ADMINISTRATION									
BA	23	249	28	320	60	329	102	353	1464
Total	23	249	28	320	60	329	102	353	1464
CHEMISTRY & PHYSICS									
ChE	4	110	5	70	9	55	7	49	309
Chem	3	27	3	30	3	24	1	22	113
CCh	—	—	—	—	—	—	—	2	2
Phys	2	54	8	36	6	25	5	24	160
PM	1	51	—	21	3	28	2	23	129
Sc	—	11	—	9	2	8	—	17	47
Total	10	253	16	166	23	140	15	137	760
EDUCATION									
AEd	2	22	2	25	3	18	4	16	92
Ed	29	344	30	291	29	253	30	197	1203
IArt	3	13	—	13	3	15	4	23	74
MusEd	1	23	3	26	5	21	2	14	95
Psy	2	68	4	70	11	55	9	32	251
VIEd	—	2	—	3	2	1	—	3	11
Total	37	472	39	428	53	363	49	285	1726
ENGINEERING & ARCHITECTURE									
AeroE	12	89	8	69	10	51	4	41	284
AgE	—	19	—	9	1	9	2	20	60
Arch	—	31	—	22	4	19	2	36	114
AE	—	15	1	13	1	11	1	15	57
CE	6	79	7	77	10	63	14	57	313
EE	1	181	34	200	41	194	52	200	903
ESc	—	—	—	19	2	15	1	11	48
IE	6	40	2	48	9	40	11	63	219
ME	1	143	8	114	23	100	23	108	520
SE	—	—	—	1	—	3	—	—	4
Total	26	597	60	572	101	505	110	551	2522
HOME ECONOMICS									
HEc	2	173	5	135	8	106	7	130	566
HA	—	19	7	21	7	22	4	29	109
Total	2	192	12	156	15	128	11	159	675
THE LIBERAL ARTS									
AL	18	303	13	270	34	223	42	227	1130
LMR	—	10	1	13	6	16	7	15	68
School of The Arts									
AArt	2	33	1	20	4	28	1	17	106
Arts	—	22	2	9	5	14	5	5	62
School of Journalism									
Journ	3	62	2	50	7	47	11	51	233
Total	23	430	19	362	56	328	66	315	1599
MINERAL INDUSTRIES									
Cer	—	13	1	12	1	8	1	9	45
FT	—	19	—	11	—	2	—	2	34
Geog	—	—	—	3	—	10	1	3	17
G&G	1	13	—	3	2	9	2	6	36
G&M	—	22	3	16	2	12	1	7	63
Metal	1	43	2	24	1	19	1	29	120
Meteo	—	7	2	6	3	22	2	24	66
MnEc	—	2	—	1	—	2	1	5	11
MPE	—	1	—	4	1	2	—	2	10
MngE	—	11	—	5	1	4	1	3	25
PNGE	1	21	3	10	5	14	3	16	73
Total	3	152	11	95	16	104	13	106	500

Registrar Reports on Total Campus Enrollment for Spring Semester, 1957-58

	1 Sem		2 Sem		3 Sem		4 Sem		5 Sem		6 Sem		7 Sem		8 Sem		Total
Physical Education & Athletics																	
PhEd	4		56		7		48		9		38		9		52		223
RcEd	—		5		1		12		1		16		2		12		49
Total	4		61		8		60		10		54		11		64		272
Division of Counseling																	
Counseling	5		420		33		352		32		54		10		—		906
Total																	
Undergraduates	145		3094		247		2774		406		2253		424		2253		11,596
	Freshmen		Sophomores		Juniors		Seniors		Graduate		Special		Totals				
	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	T
Campus																	
Full-time	2095	1138	2161	845	2015	616	2096	526	483	87	30	7	8880	3219			12099
Part-time	6	—	8	7	10	18	30	25	923	242	87	156	1064	448			1512
Total on Campus	2101	1138	2169	852	2025	634	2126	551	1406	329	117	163	9944	3667			13611
Centers (See summary below)																	
Full-time (4-Yr)	805	99	224	57	3	—	—	—	—	—	3	—	1035	156			1191
Full-time (2-Yr)	772	26	463	9	—	—	—	—	—	—	—	—	1235	35			1270
Part-time (4-Yr)	74	2	7	1	—	—	—	—	—	—	11	10	92	13			105
Part-time (2-Yr)	37	—	28	—	—	—	—	—	—	—	2	—	67	—			67
Part-time																	
Ext. Classes	—	—	—	—	—	—	—	—	174	126	670	707	844	833			1677
Total Centers	1688	127	722	67	3	—	—	—	174	126	686	717	3273	1037			4310
Mont Alto																	
Full-time	108	—	—	—	—	—	—	—	—	—	—	—	108	—			108
Total Off Campus	1796	127	722	67	3	—	—	—	174	126	686	717	3381	1037			4418
Total On and Off Campus	3897	1265	2891	919	2028	634	2126	551	1580	455	803	880	13325	4704			
	5162		3810		2662		2677		2035		1683		18029				

Summary of Off-Campus Enrollment, Spring Semester, 1957-58

Centers	Four-Year		Special		Two-Year		
	Full-Time	Part-Time	Full-Time	Part-Time	Full-Time	Part-Time	
Allentown	—	—	—	1	82	7	90
Altoona	197	2	2	5	180	15	401
Behrend	103	17	—	1	71	5	197
DuBois	89	2	—	6	67	2	166
Hazleton	125	1	—	2	119	7	254
McKeesport	—	—	—	—	140	7	147
New Castle	—	—	—	—	72	—	72
Ogontz	509	62	—	7	109	2	689
Pottsville	165	—	1	1	83	1	251
Scranton	—	—	—	—	79	3	82
Wilkes-Barre	—	—	—	—	156	10	166
York	—	—	—	—	112	6	118
Mont Alto	108	—	—	—	—	—	108
Total Off Campus	1296	84	3	23	1270	65	2741

Recapitulation

	M	W	Total
Campus			
Full-time undergrad.	8397	3132	11529
Part-time undergrad.	141	206	347
Total undergrad.	8538	3338	11876
Full-time graduate	483	87	570
Part-time graduate	923	242	1165
Total graduate	1406	329	1735
Total Main Campus	9944	3667	13611
Off Campus			
Full-time undergrad.	2378	191	2569
Part-time undergrad.	159	13	172
Part-time Extension			
Undergrad.	686	717	1403
Graduate	174	126	300
Total Off Campus	3381	1037	4418
On and Off Campus			
Full-time undergrad.	10775	3323	14098
Part-time undergrad.	970	926	1896
Full-time graduate	483	87	570
Part-time graduate	1097	368	1465
Total	13325	4704	18029

Graduate and Special Students by Colleges

	Graduate		Special	
	M	W	M	W
Agriculture	264	19	12	5
Business Admin.	47	1	16	11
Chem. and Phys.	227	13	4	1
Home Economics	4	66	1	12
Liberal Arts	142	62	21	52
Education	318	143	40	78
Eng. and Arch.	126	—	17	2
Mineral Ind.	225	2	4	1
Phy. Ed. and Ath.	24	12	2	1
General Graduate	29	11	—	—
Total	1406	329	117	163
	1735		280	

Calendar

Friday, Mar. 7

Mineral Industries Colloquium, 4:10 p.m., Mineral Sciences Auditorium. Dr. J. D. Mackenzie, ceramic studies section, General Electric Corp., on "Physico-chemical Studies of Some Glass-Forming Liquids."

Preliminary competition, Eastern Intercollegiate Gymnastic League championships, 7 p.m., Rec Hall.

American Statistical Association meeting, 4 p.m., 319 Willard Building.

Fluid Mechanics seminar, 4:10 p.m., Room 1, Sackett Building. A. M. O. Smith, supervisor, Aerodynamics Research, Douglas Aircraft Co., El Segundo, Cal., on "Effects of Roughness on Transition in Laminar Boundary Layers."

Opening night of Players' production of "Boy On The Beach," 8 p.m., Center Stage.

Talk by Dr. J. Boelaars, Roman Catholic missionary, 9 a.m., Room 112, Osmond Lab, sponsored by the department of sociology.

Saturday, March 8

Players production of new play, "The Boy On The Beach," 8 p.m., Center Stage.

Finals of EIGL championships in gymnastics, 1:30 p.m., Rec Hall.

UCA dinner-lecture series, 6:30 p.m., Dining Room "A", Hetzel Union Building. Rev. Dr. Theodore Gill, managing editor, "The Christian Century."

Artists' Series, 8:30 p.m., Schwab Auditorium. The Dublin Players in "Juno and the Paycock."

Sunday, March 9

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Theodore A. Gill, managing editor, "The Christian Century."

Monday, March 10

Faculty Luncheon Club, 12 noon, Dining Room "A", Hetzel Union Building. Vernon V. Aspaturian, assistant professor of political science, on "Struggle for Power within the Kremlin."

Mineral Economics Seminar, 4:10 p.m., Room 121, Mineral Industries. Dr. Robert Scholten, associate professor of petroleum geology, on "Geology of Natural Gas."

Engineering Mechanics Seminar, 4:10 p.m., Room 203, Engineering "A". Dr. Henri Marcus, special lecturer in engineering mechanics, on "Vibration of Circular Beams."

Tuesday, March 11

Meteorology Seminar, 1:10 p.m., Room 219, Willard Building. Paul Julian, instructor in meteorology, on "The Problem of the 'Best Guess' of Stratospheric Winds."

American Society for Metals meeting, 7:30 p.m., Mineral Sciences Auditorium. C. J. Walton, chief, chemical metallurgy division, Alcoa Research Laboratories, on "Effects of Metallurgical Factors on Resistance to Corrosion of Aluminum Alloys."

Meeting of faculty of the College of Business Administration, 3:10 p.m., Room 111, Boucke Building.

Chemistry faculty colloquium, 11 a.m., Room 111, Boucke Building. Dr. Lionel Goodman, assistant professor of chemistry, on "Theoretical Calculation of Resonance Loss Due to Staircase Hindrance."

Vesper service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Michael Chiappetta, associate professor of education, in charge.

Physics Colloquium, 4:10 p.m., Room 117, Osmond Lab. Dr. John Higgins, Johnson Foundation, University of Pennsylvania, on "Relationships Between Kinetics and the Stoichiometry for Complex Chemical Systems."

Wednesday, March 12

Third paper in UCA Series on "The Responsible University in an Age of Crisis," by Dr. Roy C. Buck, associate professor of rural sociology, on "Teacher on a Tight Rope—Student on a Fence," 8:30 p.m., Helen Eakin Eisenhower Chapel.

Forestry Convocation, 11 a.m., Room 121, Sparks Building. Adna R. Bond, assistant forester, Maryland Department of Forests and Parks, Annapolis, Md.

Mining Seminar, 4:15 p.m., Room 24, Mineral Industries. Robert Stefanko, instructor in mining engineering, on "The Future of A-C Power in Mining."

Student Branch meeting of ASME, 7 p.m., Room 105, Mechanical Engineering. Dr. Henry Finch, professor of philosophy, on "The Spiritual Worth of Mechanical Things."

Metallurgy Seminar, 4:10 p.m., Room 317, Willard Building. Dr. J. J. Comer, associate professor of mineral sciences, on "The Electron Microscope as a Tool for Studying Surfaces."

Thursday, March 13

Chemistry Colloquium, 1:10 p.m., Room 119, Osmond Lab. Dr. T. W. Gilbert, assistant professor of chemistry on "Phototropism and Interaction Absorption: Two Phenomena of Importance in Spectrophotometry."

Faculty meeting, College of the Liberal Arts, 4:10 p.m., Room 121, Sparks Building.

College of Business Administration Career Day. Featured speaker, Dr. Raymond J. Saulnier, chairman of the economic advisers to President Dwight D. Eisenhower, 8 p.m., Schwab Auditorium.

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Episcopal Evensong. Liturgist: Rev. Donald Cutler, pastor of Episcopal students.

Mathematics Colloquium, 3:10 p.m., Room 228, Sparks Building. Dr. Carl Faith, assistant professor of mathematics, on "Conjugates in Division Rings."

Mechanical Engineering Graduate Seminar, 3:45 p.m., Room 211, Mechanical Engineering. D. F. White, research associate in engineering research, on "The Non-Steady Flow Turbine."

Friday, March 14

Players' production of "The Boy on the Beach," 8 p.m., Center Stage.

American Statistical Association meeting, 4 p.m., 319, Willard Building.

PLEASE NOTE

Dr. Erwin W. Mueller, research professor of physics, will be featured on a nationwide telecast in the series called "Conquest" produced by the Columbia Broadcasting System.

The show will be seen at 5 to 6 p.m., Sunday, Mar. 9 over WFBG-TV, Altoona, and other stations affiliated with the network. Dr. Mueller's portion of the program is concerned with his ion microscope and the photographing of the atom.

Terrace Room Features

Special Menus Mar. 15, 17

The Terrace Room at the Hetzel Union Building will observe two special occasions soon.

On Saturday, Mar. 15, the third anniversary of the opening of the Terrace Room will be observed with a special birthday cake and a menu including open tenderloin sandwich, calves liver with bacon, baked ham, or meat loaf with potato border. Assorted tarts and apple pie will be featured for dessert.

On St. Patrick's Day, Monday, Mar. 17, the menu will feature roast turkey, corn beef and cabbage, old fashioned Irish stew, and beef patty, with molded lime salad, and lime chiffon pie. Special favors will be provided for the children.

University Cooperates In Television Program

Penn State will cooperate with five other Central Pennsylvania colleges in presenting programs in English, mathematics, and science next summer over television station WFBG, Altoona.

The program will be given from 9 to 10 a.m., Monday through Friday, from June 16 to August 15. Instruction in English and mathematics will be given for five weeks each and chemistry and physics for four weeks.

The Altoona Center will be in charge of mathematics program. Indiana State Teachers College, Juniata, St. Francis, Mt. Aloysius, and Lock Haven State Teachers College are cooperating in the program.

Items of Interest

Dr. G. W. Brindley, head of the department of ceramic technology, has contributed the first chapter of a new book on "Ceramic Fabrication Processes," which deals with the scientific principles and current practice of ceramic forming methods.

Dr. Joseph Jordan, associate professor of chemistry, has accepted an invitation to speak on May 5 at Wayne State University in Detroit, Mich., in the annual lecture sequence on "Frontiers in Chemistry." He will speak on "Thermochemical Titrations."

Dr. R. Hadly Waters, professor of transportation, recently addressed the Altoona Traffic Club on "What Transportation Economists Are Thinking."

Viktor Lowenfeld, head of the department of art education, will serve as one of 20 consultants to the Advisory Group of Educators to prepare the 1960 White House Conference called every ten years by the President of the United States.

Dr. A. K. Blackadar, associate professor of meteorology, discussed methods of observing and predicting low-level wind shear which cause hazards for aircraft landing at annual workshop meetings of the District of Columbia branch of the American Meteorological Society in Washington, D. C. this week.

Dr. Joseph Jordan, associate professor of chemistry, recently delivered two lectures at Ohio State and one at the University of Cincinnati on "Enthalpy Titrations" and "Hydrodynamic Voltammetry."

Dr. James W. Markham, head of the department of news and editorial journalism, is a member of a three-man committee searching for the best journalistic research published during 1957 for Kappa Tau Alpha, national journalism scholarship society, which will present its author with the Society's research prize.

Dr. Harry C. Fink, associate professor of plant pathology, recently presented a paper titled "Indexing Sour Cherry Trees for Necrotic Ring Spot Virus on Excised Twigs" at meetings of the Potomac Division of the American Phytopathological Society.

Dr. Jessie R. Bernard, professor of sociology, is one of the contributors to the book, "Institutions of the Advanced Nations of the World" with a chapter on "Institutions of the United States."

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Rise Stevens Concert Sunday

Rie Stevens, mezzo-soprano of the Metropolitan Opera, will present the next program of the Artists' Series at 8:30 p.m. Sunday in Recreation Building.

The ticket distribution for students began Monday and the sale of tickets to non-students will continue today at the main desk of the Hetzel Union Building. They are priced at \$1.

Miss Stevens, who made her operatic debut in 1938, will include excerpts from several operas on her program.

Simes Civilian Observer In Amphibious Exercise

Dr. Frank J. Simes, dean of men, is currently serving as a civilian observer on an amphibious exercise involving more than 40,000 sailors and marines, 60 ships and 260 aircraft of the Atlantic Fleet.

The operation includes a full scale amphibious assault on the North Carolina beaches. The operation continues for two weeks.

Capt. Victor B. McCrea, former professor of naval science, is in command of a fast transport group of cruisers, amphibious ships, and support carriers.

Newspaper Editors To Hear Of Space Age

Many scientists concerned with the problems of the space age will be featured speakers on the program of the Editors' Seminar, sponsored by the Pennsylvania Society of Newspaper Editors on Mar. 21-22.

The subjects to be discussed include satellites, space travel, flying saucers, and uniting the world through science.

President Eric A. Walker and Dr. Arthur H. Waynick, director of the Ionosphere Research Lab will speak along with such scientists as Dr. John P. Hagen, director of Project Vanguard, and Dr. Ernest Stuhlinger, director of the Research Projects Office, Army Ballistic Missile Agency.

Gifts, Bequests Total \$3 Million In Five Years

In less than five years, gifts and bequests to the University have totalled more than \$3,602,822, including \$919,924 to the Alumni Fund and \$2,682,989 to the Development Fund.

The development fund is made up of contributions from non-alumni and from industry, excluding gifts for contract research or associate fellowships.

In the past year the total of contributions to the Alumni Fund was nearly \$185,000, including more than \$8,000 from parents of students.

Netherlands Missionary To Speak On New Guinea

Dr. J. Boelaars, Roman Catholic Missionary of the Sacred Heart, of The Netherlands, will speak before the class in Anthropology 45 today at 9 a.m. in Room 112, Osmond Lab.

The title of his talk will be "The Acculturation Process in Southern Netherlands New Guinea." The talk is open to all interested persons.

The Netherlands government sent Dr. Boelaars to do six years field work among the tribes of the woods and swamps of the Merauke and Mappi River Areas of southwestern New Guinea, in the period following his graduate work for his doctor of philosophy degree in 1950. On his return to Holland, Dr. Boelaars wrote several books and articles on the peoples of the area. He is now on his way back to New Guinea.

St. Lawrence Project To Be Discussed

Robert W. Cleveland, president of Cleveland Bros. Equipment Co., Harrisburg, will speak on the St. Lawrence Seaway Project at the meeting of the student branch of the Society of American Military Engineers on Thursday, Mar. 20, at 7 p.m. in Room 26, Mineral Science Building.

The meeting is open to the public.

Thespians To Give Pajama Game Musical

Tickets for the Penn State Thespians' production of the Broadway musical, "The Pajama Game" will go on sale at the Hetzel Union Building desk on Monday, Mar. 17.

Evening performances of the musical will be given at 7:30 p.m., on Thursday, Friday, and Saturday, Mar. 20, 21 and 22, in Schwab Auditorium. A special Saturday afternoon performance will be given starting at 2 p.m. Tickets are \$1.25 for the Thursday evening and Saturday afternoon shows and \$1.50 for the Friday and Saturday evening shows.

The book for "The Pajama Game" was written by George Abbott and Richard Bissell and the music by Richard Adler and Jerry Ross.

O'Brien Cited

The department of speech at the University of Wisconsin has passed a resolution on the death of Joseph F. O'Brien, professor of public speaking who died on Feb. 14.

The resolution cited the distinguished service O'Brien gave in his profession.

Lott Author of Book On Human Emotions

Dr. George M. Lott, University psychiatrist, is author of a book, "The Story of Human Emotions" just published by the Philosophical Library.

A popular book, intended for average readers, it will be found useful to parents and teachers, and students in high school and colleges. The book emphasizes the usual features in the normal individual's development.

Reagan Retires

William J. Reagan, associate professor of metallurgy, has retired after serving 12 years on the faculty. A graduate of Carnegie Institute of Technology, he served on the faculty there from 1936 to 1942. He has also held various positions in the steel industry and done consulting work for the industry.

Penn State Collection,
Pattee Library.

Senate Minutes

Minutes of the Meeting of March 6, 1958

The University Senate met at 4:10 p.m. on Thursday, March 6, 1958 in the Assembly Room of the HUB with Vice President L. E. Dennis presiding. The minutes of the February meeting were approved as printed in the Faculty Bulletin for February 14, 1958. One hundred twenty-nine senators signed the roll.

Communications from University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: F. R. Matson (Louis Dupree), B. B. Lethbridge (R. S. Stout), H. M. Davison (W. J. DeLacy), L. S. Roudiez (W. S. Smith), J. F. Friese (N. C. Pendered), E. L. Keller (T. S. Goas), R. H. Wherry (R. G. Kokat), R. G. Stoner (B. Y. Bakamjian), H. J. Read (A. I. Muan), and A. L. Bortree (Stephen Gordeuk, Jr.).

New Senators

In the College of Home Economics, Elizabeth Hester and Marjorie East replacing Mary Brown Allgood and Jean D. Amberson. In the College of Chemistry and Physics, T. A. Wiggins to replace R. W. Taft, Jr.

Change in Committee Membership

The Committee on Committees announced the appointment of R. B. Saylor to replace G. L. Lefler on the Committee on Courses of Study.

The following communication from E. H. Freund was read by the secretary and referred by the chairman to the Committee on Rules:

At the last Senate meeting, the University Senate implemented two of the four principles for reorganization of the Senate which were enunciated by the John's committee in its majority report last spring. These two principles were enlarging the number of elected Senators and extending their term of office.

May I call your attention to the other two principles which were also proclaimed by the John's committee and the implementation of which should not be too difficult? It has been submitted, first, that Penn State Centers should have the opportunity to participate in making nominations for elected Senate positions, hold office and take part in college elections and, secondly, that the large group of agricultural and home economics extension representatives should also have some representation in the Senate.

As far as I can see, the soundness of these principles as laid down by the John's committee is well accepted among Senators and their implementation appears entirely feasible if a committee would accept the responsibility for introducing it.

I will be glad to make such a suggestion to the Rules Committee if this would be the proper procedure.

Reports of Standing Committees

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A." Mr. Shelley called attention to the first paragraph of the report which reminded the senators that all course and curriculum proposals requiring action by the Committee for inclusion in the next General Catalogue, 1959-1960 issue, must reach the Committee by the Tenth of April, 1958. He moved the adoption of the report. The motion was seconded and passed. The report is on file in the office of the secretary.

R. W. Stone, Chairman of the SENATE COMMITTEE ON RESEARCH POLICY, presented the report which had been distributed with the agenda as Appendix "B" and moved that the report be adopted as a basis for further recommendations on research policy. The motion was seconded. J. A. Sauer asked if the report were adopted at this meeting would it still be possible to make editorial changes? There was considerable discussion on this point. Mr. Sauer moved to strike out Part II of the report of the Committee on Research Policy and insert another statement of policy which he read to the Senate. Mr. Sauer stated that his proposal was a more positive and direct statement. The motion was seconded. After considerable discussion J. D. Ridge stated that it was difficult to consider the new proposal without an opportunity to read and study it and moved postponement of consideration of the amendment and the committee report until the next meeting. The motion was seconded and passed. The report of the committee and Mr. Sauer's proposal are on file in the office of the secretary.

E. P. Nye, Chairman of the SENATE COMMITTEE ON STUDENT AFFAIRS, presented

the report which had been distributed with the agenda as Appendix "C," a clarification of Rule W-8 of the Regulations for Undergraduate Students, and moved its adoption. The motion was seconded and passed. The first paragraph of Rule W-8 as amended now reads:

W-8. Any incident of academic dishonesty reported to a student's dean shall be referred to a Committee on Academic Discipline in his College. This committee shall be made up of three faculty members and two students, appointed annually by the dean. The dean shall designate one of the faculty members as chairman. This committee shall hear the evidence, decide whether or not the student is guilty and fix a penalty except that this penalty shall not abridge the right of the instructor under Rules M-1 and M-10 to be sole judge of the student's grade.

Comments and Recommendations for the Good of the University

Mr. Dennis stated that he had wanted to discuss some matters but because of the lateness of the hour he would send a communication directly to the members of the Senate.

The next regular meeting of the Senate will be on April 10, 1958 with the agenda being distributed on March 27, 1958. The meeting adjourned at 5:20 p.m.

C. O. Williams
Secretary

FILMS LISTED

Materials listed below have been requested. Please call Extension 2051 and give code number of those you would like to see; you will be notified when they arrive so that you can arrange a preview showing in Room 9, Library.

- M-1 Andy's Animal Alphabet
- M-2 Introducing the Reptiles
- M-3 Life in a Garden
- M-4 World of Water
- M-5 Younger Generation
- M-6 Climate and the World We Live In
- M-7 What Do We See in the Sky
- M-8 English Literature: The Eighteenth Century
- M-9 English Literature: The Elizabethan Period
- M-10 I've Been There in a Book
- M-11 Face of the South
- M-12 A Story of Chamber Music
- M-13 Vamos a Colombia
- M-14 Non-Objective Art
- M-15 Cubism
- M-16 Impressionism
- M-17 Whales and Whalermen

Grant Aids Accounting Department Faculty

A grant of \$1,000 to aid members of the department of accounting and business statistics who are working for doctor's degrees has been given by the Price Waterhouse Foundation.

The Foundation, with headquarters in New York, was established by the Price Waterhouse Company, national certified public accountants firm.

Graduate Exam Listed

The next Graduate Record Examinations will be held on Saturday, April 26, at 8:45 a.m. and 1:45 p.m., but Penn State has not been designated as a center for this examination.

Candidates desiring to take the examination here must submit their application blanks and fees, accompanied by a letter requesting to take the examination at University Park, to Educational Testing Service, 20 Nassau St., Princeton, N.J., not later than Mar. 28.

Dr. Leon R. Kneebone, associate professor of botany and plant pathology, Room 117 Buckhout Lab, will provide bulletins of information and application blanks upon request.

Items of Interest

Dr. E. Willard Miller, Dr. George F. Deasy, and Dr. Phyllis R. Griess, of the department of geography, have collaborated with Dr. Earl C. Case, professor emeritus of the University of Cincinnati on a new economic and regional geography of the world, titled "The World's Nations," published by J. B. Lippincott.

★ ★ ★

A grant of \$17,040 has been made by the Carborundum Co. to Floyd A. Hummel, professor of ceramic technology, to study the stresses in ceramic products when they are cooled after firing.

★ ★ ★

A \$3,000 grant by the Wright Air Development Center will aid in the continuance of research on the effects of fatigue on the mechanical properties of materials. Dr. George U. Oppel and Joseph Marin, professors of engineering mechanics, supervise the project.

★ ★ ★

Dr. H. B. Musser, professor of agronomy, was recently awarded a plaque by the Golf Course Superintendents Association of America for his achievements in improving turf-grass.

★ ★ ★

Dr. William U. Snyder, professor of psychology and director of the Psychology Clinic, will address a Conference on Research in Psychotherapy in Washington, April 10-12. The Conference is sponsored by the U.S. Public Health Service and the American Psychological Association. He will speak on his research studies on psychotherapy.

★ ★ ★

Harold P. Zelko, professor of speech, is author of an article appearing in the January issue of the Journal of the American Society of Training Directors, titled "Practical Training in Effective Speaking."

★ ★ ★

Hugh G. Pyle, in charge of the division of informal instruction in General Extension, retires as president of the Pennsylvania Welfare Forum at the organization's 48th annual conference Mar. 26-28, after serving two years in the office.

★ ★ ★

Dr. Paul D. Krynine, professor of petrography and sedimentology, presented a paper on "Dolomitization and Carbonate Diagenesis" at the American Petroleum Institute Special Symposium on Diagenesis last week in Brea, Calif. He also participated in the Symposium on Carbonate Classification organized by the American Association of Petroleum Geologists in Los Angeles.

(Continued on page four)



As Rocket Fuels?

High Energy Uses Increase Interest In Boron Studies

Dr. Thomas Wartik, associate professor of chemistry, is leader of projects on boron compounds, some of which may someday be useful to man as rocket and airplane fuels. Other uses have already made boron important to science and industry.

MAN'S search for new types of energy, since the dawn of civilization when he first learned that wood burned and gave off heat, has taken him in many strange directions.

Wood, coal, and petroleum have become everyday names to the layman, and soon atomic fission or hydrogen fusion may become as commonplace. Still, the end hasn't been reached.

Relatively recently the scientists have been talking about "exotic" fuels to propel missiles, and perhaps help man to reach the moon. Among these fuels are the boron hydrides, new and yet old, as unpredictable as a typhoon, yet completely tameable under the right conditions.

Boron in the more familiar borax form has been known for many years and German scientists began studies of boron over 50 years ago. Much of the fundamental information needed, however, has been unavailable—for one excellent reason. On exposure to air, some boron compounds explode violently.

In the last five years, largely because several governmental agencies saw need for more information about boron, a great amount of research has been done. Some of it has been done at Penn State, with Dr. Thomas Wartik, associate professor of chemistry, as leader of the projects.

"Most of our work," Dr. Wartik explains, "is far removed from applications that it doesn't appear of general interest. It is this basic information, however, which is needed to expand

the possible uses of boron and its compounds."

The most dramatic use of the boron hydrides is that of rocket fuels. Some suggestion has been made that the Russians used this fuel in launching Sputnik II, but Soviet scientists later denied this. Nevertheless, the technique of handling boron hydrides for such purposes is now known. Ultimately, these compounds may also be used for planes, with distinct advantage, since their energy-per-pound ratio is very high and would permit greater pay loads than conventional fuels.

"Boron compounds", says Dr. Wartik, "have already been used in reactors for various parts, in neutron counters, and as a hardener for metals. Boron nitrides are as hard as diamonds, which suggests many uses."

Aided by grants from various agencies, Dr. Wartik has a number of projects going. For example, studies are being made of the ability of complex boron hydrides to reduce certain carbon compounds, having usefulness in converting to methanol or formic acid. Other research is directed toward high polymers. A third study is aimed at determining the properties of decaborane, one of the more stable boron hydrides.

Prior studies have already resulted in the establishment of a new industry. One of this industry's first assignments was the making of diborane and pentaborane for investigation as high energy fuels.

At the beginning of World War II,

the Signal Corps was interested in boron research because of the ability of certain boron hydrides to release hydrogen from water. The released hydrogen could then be used to fill weather balloons in the field. Dr. Wartik first worked on boron compounds when he was at the University of Chicago, on the Manhattan Project. The interest here was in the use of boron in neutron detection devices.

Since then, of course, other agencies have supported research including the Navy and Air Force. Dr. Wartik's studies are aided by grants from the Koppers Company, the Callery Chemical Company, and the Air Force.

Because of the unpredictable nature of boron compounds, special precautions are taken in the laboratory. All the work is done in vacuum systems, and the lab personnel frequently wear masks. Although many boron compounds are toxic, there is no real danger from this source since even minutely small quantities can be detected by their odor.

Although Dr. Wartik has been working for five years on these studies, he feels that only the surface has been scratched in our knowledge of boron. Voluminous extracts of reports on studies all over the country come regularly to his office, well illustrating the tremendous interest in boron. Almost certainly, man's quest for more energy will lay the ground work for other uses as well, as he learns more about this very old, but yet new element.

Calendar

Friday, Mar. 14

Players production of "The Boy on the Beach," 8 p.m., Center Stage.
American Statistical Association meeting, 4 p.m., 319, Willard Building.

Saturday, Mar. 15

Players production of "Boy on the Beach," 8 p.m., Center Stage.

Sunday, Mar. 16

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther Harshbarger, University chaplain.

Artists' Series concert by Rise Shevens, 8:30 p.m., Recreation Building.

Monday, Mar. 17

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Dr. John D. Lawther, assistant dean, College of Physical Education and Athletics, on "The Place of Soma in Public Education."

Engineering Mechanics Seminar, 4:10 p.m., Room 203, Engineering "A," Dr. Henri Marcus, special lecturer in engineering mechanics, on "Patterns of Two-Dimensional Vibrations."

Mineral Economics Seminar, 4:10 p.m., Room 121, Mineral Industries. Luther T. Bisey, assistant professor of petroleum and natural gas engineering, on "Natural Gas Production Problems."

AAUP meeting, 8 p.m., Room 110, Electrical Engineering. Charles J. Rowland, dean of department of accounting and business statistics, and Paul Mazza, State College attorney and part-time instructor in accounting, on "The Professors' Income Tax Problems."

Tuesday, Mar. 18

Five O'Clock Theatre presentation of "Tomorrow is Only Tuesday," a new one-act play by Bonnie Walters, 5 p.m., Little Theatre, Old Main.

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Clifford A. Nelson, associate professor of accounting, on "The Passover Festival."

Economics Seminar, 12 noon, dining room "A," Hetzel Union Building. Dr. Will E. Mason, associate professor of economics, on "The 'New Inflation' and the Middle Class Crisis."

American Chemical Society meeting, 7:30 p.m., Room 119, Osmond Lab. Dr. Edward F. Greene, associate professor of chemistry, Brown University, on "Shock Waves for Chemical Purposes."

Meteorology Seminar, 1:10 p.m., Room 219, Willard Building. Mrs. Mae Lethbridge, research assistant, department of meteorology, on "Possible Extra-terrestrial Influence Upon Weather."

Chemistry faculty colloquium, 11 a.m., Room 111 Boucke Building. Dr. Joseph Jordan, associate professor of chemistry, on "Transfer Kinetics Equilibria and Mechanisms in Electroanalytical Chemistry."

Physics Colloquium, 4:10 p.m., Room 117 Osmond Lab. Milton G. White, director, Princeton (Pa.) Accelerator of Palmer Physical Laboratory, on "High Energy Physics and the Princeton, Pa., Three Billion Electron Volt Accelerator."

Wednesday, Mar. 19

Metallurgy Seminar, 4:10 p.m., Room 317, Willard Building. Dr. W. A. Weyl, professor of glass technology, on "Surface Chemistry."

Thursday, Mar. 20

Opening night of Thespian production of "The Pajama Game," 7:30 p.m., Schwab Auditorium.

Liberal Arts Research Luncheon, 12 noon, dining room "A," Hetzel Union Building. J. Mitchell Morse, assistant professor of English composition, on "Man's Oldest Tradition: The Fear of Brains."

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Edwin P. Nye, associate professor of mechanical engineering, on "The Physical Sciences—A Christian Approach."

Lecture in Religion, College of the Liberal Arts, 8:30 p.m., Room 121, Sparks Building. Dr. Jacob Taubes, assistant professor of religion, Columbia University, on "Monologue and Dialogue: Secular and Religious Existentialism."

Graduate School faculty meeting, 4:10 p.m., Room 121, Sparks Building.

Friday, Mar. 21

Thespian show, "The Pajama Game," 7:30 p.m., Schwab Auditorium.

Players' production of "Boy on the Beach," 8 p.m., Center Stage.

Items of Interest

(Continued from page two)

G. L. Theuring, professor of industrial engineering, spoke on "Controlling Engineering" at the recent one-week seminar on Managing and Measuring Engineering Effort sponsored by the American Management Association.

* * *

Dr. M. L. Keith, professor of geochemistry, reported on recent research on the geochemistry of sedimentary rocks at the Geophysical Laboratory of the Carnegie Institution of Washington, D.C. and at Johns Hopkins University recently.

* * *

Dr. Erwin W. Mueller, research professor of physics, gave a series of lectures and seminars on field emission research at the University of Georgia, Emory University, and Georgia Institute of Technology, recently.

* * *

Anthony S. Luchek, head of the Labor Education Service, spoke recently at the 13th annual National Conference on Higher Education on, "Recent Developments in Liberal Education and Labor Unions."

* * *

Three members of the faculty participated in the meeting on Health Careers sponsored by the Pennsylvania Health Council recently. They were Dr. Eugene T. McDonald, director of the Speech and Hearing Clinic; Dr. William G. Mather, head of the department of sociology; and Dr. Asa J. Berlin, associate professor of speech education.

* * *

W. E. Meyer, professor of mechanical engineering, co-authored a paper on "Application of Fuel Injection to Spark Ignition Engines" which was presented recently to the Milwaukee section of the Society of Automotive Engineers as part of a lecture series on "Engineering Know-How in Engine Design" sponsored by Marquette University.

* * *

Dr. Miriam E. Lowenberg, head of the department of foods and nutrition, is scheduled to present talks today and tomorrow at Monroe, La., at the meeting of the Louisiana Home Economics Association, on "Food Is For People" and "The Art of Feeding Families."

* * *

Dr. Benjamin A. Snavely, acting director, and Dr. Vernon M. Albers, chief scientist, of the Ordnance Research Lab attended the Second Symposium on Basic and Applied Science in the Navy this week in San Diego, Calif.

Report from the Registrar

WITHDRAWALS (Campus)

- 3 Albert, George Lynn, ChE, Feb. 1
- 4 Appel, Sandra A., A&L, Feb. 6
- 4 Chuprun, Donald, BA, Feb. 7
- Gr Cookman, Rodney Pennington, Jr., EE, Feb. 6
- Gr Decker, Beatrice A., HEC, Feb. 6
- 2 Epstein, Marian H., A&L, Feb. 7
- 2 Firmstone, David Russell, Coun, Feb. 7
- 2 Greninger, Richard Delano, AB CH, Feb. 4
- 6 Horan, Donald Eugene, METAL, Feb. 1
- 5 Horner, Herbert Ammon, BA, Feb. 5
- 2 Ichter, Arthur X., BA, Feb. 7
- 2 James, Lewis Richard, AgE, Feb. 6
- 4 Kirm, Annie, A&L, Feb. 7
- 6 Lessig, Daniel Kepner, A&L, Feb. 8
- 3 Lorch, Ronald Jay, BA, Feb. 3
- 1 Mattson, William F., Coun, Feb. 5
- Gr Mudrich, Alfred G., Feb. 10
- 8 Strange, Jack F., Feb. 4
- 5 Steele, Donald Clair, RcEd, Feb. 3
- 6 Umbower, Janice Manley, Art Ed, Feb. 1
- 5 Wolfe, Richard Edgar, EE, Feb. 3
- 2 Andersen, Carol Ann, Ed, Feb. 14
- Gr Bealer, James Edward, Ed, Feb. 13
- 2 Berrell, Sandra J., A Art, Feb. 20
- 2 Capetola, Nicola Luigi, BA, Feb. 13
- 4 Caputo, Louis J., Coun, Feb. 13
- 9 Collins, Judson S. Jr., BA, Feb. 13
- Gr Evans, Glenna LaRue, SecEd, Feb. 15
- Sp Graham, Helen Kathryn, Sp, Feb. 14
- 4 Honess, Sandra Lee, A Art, Feb. 13
- 4 Howell, Charles M., G&M, Feb. 17
- 2 Jones, James McMenemy, PM, Feb. 18
- 6 Kaminski, Daniel J., ME, Feb. 20
- 2 Mills, Judith A., PM, Feb. 13
- 8 Remley, Margaret A., A&L, Feb. 17
- 2 Siglehart, Philip C., 2 Ag, Feb. 13
- 2 Starr, Maryn Mae, A&L, Feb. 12
- 2 Stasik, Thomas G., A Art, Feb. 17
- 2 Subit, Bette Lou, ELED, Feb. 20
- Gr Szeliga, Victor, Art, Feb. 13
- 2 Wagner, Larry B., Coun, Feb. 19
- Gr Wang, Szu-cheng, BPP, Nov. 25, 1957
- 2 Whalen, Jr., John J., Coun, Feb. 3
- Sp Wilson, Jr., Kenneth T., Art Ed, Feb. 14
- 5 Wright, Von Edward, PNG, Feb. 18
- Gr Batdorf, R. Bruce, Metal, Feb. 21
- Gr Conrad, Austin Blair, BA, Feb. 25
- 4 DiLiberto, John M., BA, Feb. 24
- 2 Ebbecke, Patricia A., COUN, Feb. 25
- 4 Green, Samuel R., COUN, Feb. 24
- Gr Hammond, Richard J., CHEM, Feb. 26
- Gr Legory, Louis H., BA, Feb. 21
- Gr Mackin, John William, Guid, Feb. 22
- 5 Miller, Dale Calvin, CE, Feb. 26
- 6 McGough, Patricia Ann, AL, Feb. 25
- 2 Palmer, Theodore, Charles, BA, Feb. 20
- 2 Rathfon, Donna Lynn, HEC, Feb. 24
- 2 Schwartz, David Lamar, CE, Feb. 24
- Gr Slocum, Lloyd V., EE, Feb. 21
- 4 Wunder, Charles V., COUN, Feb. 24

WITHDRAWALS (University Centers)

- Bachelor's Degree Program*
- 2 Bair, Norman Edgar, ET, Feb. 3
 - 2 Kaplan, Leonard, DDT, Feb. 5
 - 2 Wentz, Dieter, DDT, Feb. 3
- Bachelor Degree Program*
- 2 Hatvany, George Francis, Jr., EE, Feb. 11
 - 2 Louie, Joseph Philip, EE, Feb. 5
 - 4 Mohr, Evelyn Amelia, Journ, Feb. 7
 - 2 Reinhart, William Warren, EE, Feb. 14
 - 1 Gaydos, George John, BA, Feb. 10
 - 2 Greenberg, Norman Harris, BA, Feb. 7

Fifth Group Begins Nuclear Science Work

The fifth group of scientists and engineers from the United States and other countries has enrolled in the International School of Nuclear Science and Engineering at Penn State.

Thirty scientists, including the first woman, have come from Austria, Belgium, Brazil, Burma, China, Finland, Germany, Greece, India, Iran, Iraq, Italy, Japan, Korea, The Netherlands, Peru, Spain, Switzerland, Thailand, and Venezuela for the program, which is offered in cooperation with the Atomic Energy Commission.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Faculty-Trustee Dinner Scheduled For Thursday

Ticket sales for the annual Faculty-Trustee dinner sponsored by the American Association of University Professors will close at noon Monday, Mar. 24.

The dinner will be held in the ballroom of the Hetzel Union Building at 6 p.m. on Thursday, Mar. 27.

An hour-long program of music and other presentations by students and faculty members of the School of the Arts will be given.

The theatre arts department will present the trial scene from Maxwell Anderson's "Barefoot in Athens," directed by Walter H. Walters, head of the department.

Theodore K. Karhan, associate professor of music and music education, will offer an original composition, "From Many Lands," a suite for string orchestra.

An ensemble of 50 voices, a trio, and a triple trio from the Penn State Women's Chorus, under the direction of W. Paul Campbell, associate professor of music education, will sing several numbers. Included is "In June" by Clarence C. Robinson who dedicated the number to the Chorus.

Dr. Deno Thevaos, associate professor of psychology, and Dr. Joseph Britton, associate professor of child development and family relations, are co-chairmen of the dinner. Russell Whaley, assistant professor of theatre arts, is program chairman. Loren D. Tukey, associate professor of pomology, is in charge of tickets sales. Tickets may be obtained from college representatives whose names were given in the Feb. 28 issue of *Faculty Bulletin*.

African Sculpture Now On Exhibit

An exhibit of African sculptures, currently on display in the gallery of the Hetzel Union Building, will continue until Monday, Mar. 24. The collection is from the Segy Gallery, New York.

Tickets Available For Dance Company Program

Faculty members and other non-students may obtain tickets for the program to be presented by the Henry Street Playhouse Dance Co. on Wednesday and Thursday, Mar. 26 and 27 at the main desk of the Hetzel Union Building. They are priced at \$1.25.

The program is the 14th of the Artists' Series and is scheduled for 8:30 p.m., Friday, Mar. 28, in Schwab Auditorium. Students tickets will be available on Monday afternoon and Tuesday, Mar. 24 and 25, and if any remain after the sale, on Friday, Mar. 28.

Williamson To Present Paper In UCA Series

Dr. Merritt A. Williamson, dean of the College of Engineering and Architecture, will present the fourth lecture in the current University Christian Association series on "The Responsible University in an Age of Crisis", at 8:30 p.m., Wednesday, Mar. 26, in the main lounge of the Helen Eakin Eisenhower Chapel.

He will present a paper on "The Faculty Environment to Optimize the Exposure of the Student to the Realm of Values." All faculty members and graduate students are cordially invited. Dr. John R. Rackley, dean of the College of Education, will be chairman of the meeting.

Rackley To Speak To Alumni Tonight

Dr. John R. Rackley, dean of the College of Education, will speak on "Some Good Things About Our Schools" at the meeting of Central Pennsylvania alumni tonight at 8 p.m. in the assembly room of the Hetzel Union Building.

The meeting is one of a series to launch the 1958 Alumni Fund. Twelve meetings in all have been scheduled in the next three weeks. Robert W. Ostermayer, general chairman of the 1958 campaign, will also speak at the meeting on campus.

Dr. Strain Presents Priestley Lectures

Dr. Harold H. Strain, senior chemist, Argonne National Laboratory, will present the annual Priestley Lecture Series next week, Monday through Friday, in Room 119, Osmond Lab.

Speaking on the general theme, "Chloroplast Pigments and Chromatographic Analysis," Dr. Strain will present the lectures at 8 p.m., except on Thursday when he will talk at 4:30 p.m.

A graduate of Stanford University, where he also obtained his master's and doctor's degrees, Dr. Strain joined the staff of the Carnegie Institution's Coastal Laboratory at Carmel, Calif., which later became the Department of Plant Biology. He joined the staff at Argonne National Laboratory in 1948, and has been engaged in studies of neutron activation techniques and of differential methods of analysis, particularly electrochromatography.

Wives Of Trustees Honored At Tea

A tea for wives of University trustees will be held on Thursday, Mar. 27 from 2:30 to 4:30 p.m. in Hibbs Hall, one of the new women's residence halls on College Ave.

Women faculty members are invited to the tea, which is preliminary to the annual faculty-trustee dinner in the evening. A tour of the new residence halls and of the dining hall in the area will be conducted.

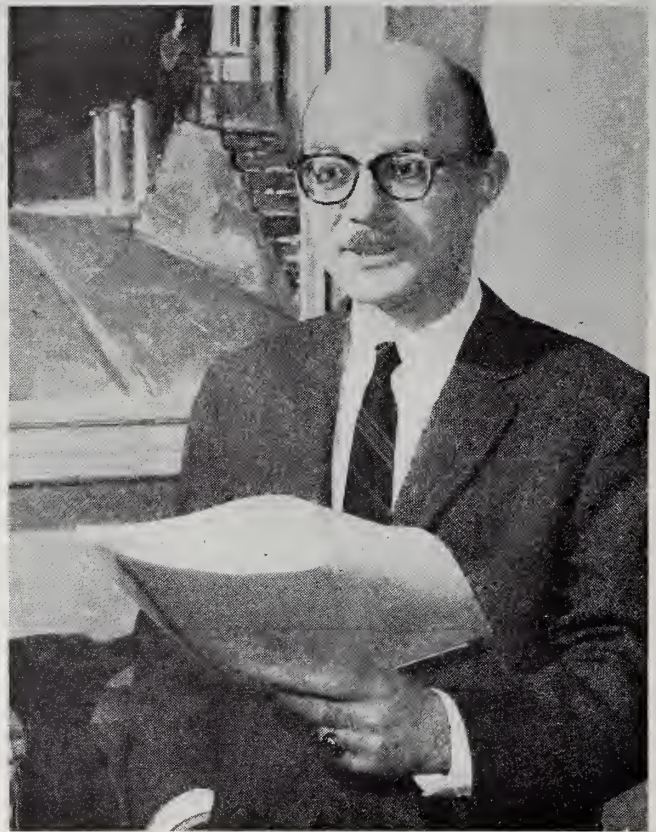
HUB Exhibit Features Centers

Penn State's centers are the subject of an exhibit in the main floor corridor of the Hetzel Union Building. The exhibit will remain until the end of March.

Large photographs of center buildings in existence and architects' drawings of buildings proposed or under construction at Altoona, McKeesport, and Hazleton are included in the exhibit.

Eggheads Distrusted Always; Freedom Needed For Creation

Dr. J. Mitchell Morse, assistant professor of English composition, presented a paper yesterday upholding the traditional position of the intellectual as one of distrust by society generally. Such a position must be accepted as a condition of intellectual life, he said.



"THERE'S a lot of loose talk these days about the upgrading of eggheads. As a minor egghead, I hope it isn't true. I don't want to be upgraded."

That was the provocative opening of a paper by J. Mitchell Morse, assistant professor of English composition, at yesterday's regular Liberal Arts Research Luncheon at the HUB, a bi-weekly affair for the testing of ideas.

Dr. Morse's paper, "Man's Oldest Tradition: The Fear of Brains," presented the thesis that intellectuals have always been distrusted by society because they are not committed to conventional ideas, but that such freedom from commitment is essential to creative work, and that therefore the distrust must be accepted as a condition of intellectual life.

"The worst thing that could happen to our society, short of physical destruction," he said, "would be for intellectualism to become respectable. If scholarly research ever becomes a way of getting on in the world—even in the academic world—it will lose most of its pith and value. Let us have no gray flannel caps and gowns."

But he thinks there is no real danger of that. The tradition of anti-intellectualism, he said, goes back to the Garden of Eden, and expresses a basic conflict in man's nature. "Adam was not content with Paradise. In the most innocent of all possible worlds, he perversely sought moral insight; as long as the Garden afforded none it did not meet his requirements, because in the state of innocence he himself did not meet his requirements. Innocence and insight come from within, and he who will have one must forego the other. That is the native quirk of our species.

"The original sin was intellectual curiosity, the quality that set Adam apart from the other animals. It alienated him from nature, which asks no questions and tells itself no lies. The peculiarly human quality is inherently sinful: to be fully human is to be cast out from grace. The glory of God is manifest in the physical grace of animals; man's alienation shows in his very walk, and whatever inner grace or glory he may achieve by intense thought is not apparent to the rest of nature. In lonely madness he struggles inwardly to create his own soul. This is the hell into which, of his own free will, the creative spirit plunges from the Garden. His wisdom is the devil's wisdom. The first individualist was Lucifer, the Light-Bearer; it was inevitable that he should become Satan, the Enemy.

"The struggle between the Enemy and the Community of Saints is the basic conflict in all human affairs; and if the best of the argument is with those who seek knowledge and personal development, the weight of feeling is with those who oppose it. Language itself, the peculiar expression of humanity, shows the weight of anti-human feeling. An idiot is a *natural*—as if the natural state of man were idiocy; the word *naïve* means native, natural, honest, unaffected — and uninformed; *simple* means plain, honest, forthright—and dimwitted; *artless* means lacking art, unskilled—and sincere . . .

"On the other hand, the verb to gloss or glose means to explain or interpret, and also to explain away, to misrepresent, to deceive; . . . *crafty*, which originally meant strong and later skillful, now means also devious and tricky; a *trick* itself is a clever accom-

plishment and also a swindle; *cunning* is kenning or knowledge, skill — and guile; *sharp* means bright, clever — and deceitful, as in 'sharp practices'; and such words as *shrewd*, *subtle*, *knowing*, *artful*, *designing* and *sophisticated* also have overtones of moral corruption. 'She's a nice, unsophisticated girl,' we say; we hope she will marry a gentleman, not a *wise* guy . . . The same thing is true in other languages. Look up *habile* and *malin* in a good French dictionary. Even in ancient Greece, the chief source of our intellectual tradition, *sophos* meant both wise and untrustworthy, and *chrestos* meant both good and stupid."

Dr. Morse traced the tradition of anti-intellectuality, giving specific examples, from the early middle ages down to modern times. Typical examples were Pope Gregory the Great, who protested vigorously against the teaching of grammar in the monasteries, and William Berkeley, a colonial Governor of Virginia, who reported to King Charles II in 1670, "I thank God there are no free schools, nor printing; and hope we shall not have, these hundred years; for learning has brought disobedience and heresy, and sects into the world, and printing has divulged them."

In our own day, said Dr. Morse, though we do have a great deal of personal freedom, we also have "a pitiful, servile anxiety to assure everybody that we are not smart. The most acceptable habit in our society is the placid immobility of the relaxed mind." He mentioned one of Helen Hokinson's dowagers, who sent her daughter off to college with the warning, "Now be careful—don't let them give you any

ideas!" The same attitude is more crudely expressed in comic strips and slick magazine stories. The popular comic strip heroine Penny "has a part-time boy-friend whose chief characteristics are a high I.Q., a ridiculously inflated vocabulary, and a complete lack of consideration for others. Everything he says or does is obnoxious. Penny's father calls him 'that high I.Q. creep'."

Penny's own chief charm, said Dr. Morse, lies in "an amiable dimwittedness." This is also the chief charm of Dagwood and Blondie Bumstead and their many imitators, and of the heroes and heroines of popular fiction. "The housewives' magazines," said Dr. Morse, "endlessly celebrate the triumph of virtue over brains." Typical villains are "an irascible professor of history whose researches frequently get him involved in libel suits with 'nice, normal people'; . . . an introspective young man who, having inherited an annual income of \$5,000 at age 18, decides to devote his life to reading and writing, and dreams up a crackpot plan for social and economic reform; a neurotic divorcee who would rather read poetry than look at television, thus ruining everybody's evening; a self-made millionaire's spoiled son, whom a college education has made soft and useless; and a rich girl whose suave, snobbish talk about the arts and the letters is of no avail in the sexual contest against our heroine's lower-middle-class honesty and charm."

Applying the issue to current problems of education, Dr. Morse said, "We conceive ourselves in the image of John Q. Public or John Q. Taxpayer, whose unpressed suit, uncombed hair and bewildered expression signify that his mistakes are of the head, not of the heart . . . Such an image of himself unfits a person for higher education; the difficulty we in the universities face is that millions of people who do think of themselves as John Q. Public want to go through the motions of becoming educated, and we are under pressure to adapt our courses to their low demands. But I think it is not to their interest that we do so. Western society can die of mental relaxation, and only we crazy eggheads can save it—for no one else will dare exhort its citizens to conceive themselves in a more worthy image. It is perhaps in the nature of the savior to be rejected; if so, we must accept that role also."

WDFM To Present Special Broadcast

The campus radio station, WDFM, operating on the frequency modulation band, will present a special program on Sunday, Mar. 23, beginning at 7 p.m. which may be of interest to faculty members.

The Easter music of Bach will be presented, followed by a recording of the original British Broadcasting Company production of "The True Mystery of the Passion."

Items of Interest

Dr. Delbert C. Miller, professor of sociology, addressed the 9th annual Student Personnel Conference at Kent State University recently on "Student Values—Their Role in the College Experience."

Robert G. Weaver, training co-ordinator in the department of personnel services, and Arnold Addison, personnel officer for the Ordnance Research Laboratory, have contributed articles to the CUPA Journal, organ of the College and University Personnel Association.

Dr. Frank I. Anthony, assistant professor of agricultural education and vice-president of the Pennsylvania Rural Council for Farm and Home Safety, will be one of the 3,000 delegates to the President's 10th Anniversary Conference on Occupational Safety, Mar. 25-27 in Washington, D.C.

Dr. L. H. Sommer, associate professor of chemistry, spoke on "Recent Developments in Silicone Polymers" at the meeting of the North Jersey Section of the American Chemical Society last week.

Dr. William M. Smith, Jr., professor of family relationships, will serve as chairman of a panel on "School and Home Responsibilities for the Child—The Adult," at the 48th annual conference of the Pennsylvania Welfare Forum in Pittsburgh next week.

W. W. Ward, associate professor of forestry and resident director of Mont Alto, has been elected chairman of the Allegheny Section, Society of American Foresters.

N. Richard Diller, associate professor of psychology and member of the Management Training staff, was keynote speaker at the semi-annual General Managers Conference of the Pennsylvania Farm Bureau Co-operative Association recently. Next week he will speak at the Williamsport Management Club's Regional Conference and at the Griffis Air Force Base Executive Conference.

Dr. R. Hadly Waters, professor of transportation, recently addressed a group of transportation people in the Lancaster area on, "The Traffic Manager of the Future—His Training and Education."

Dr. E. Willard Miller, head of the department of geography, has been appointed geographic editor for Funk and Wagnall's Universal Standard Encyclopedia.

Drs. Jefferson D. Ashby and Donald H. Ford, assistant directors of the Division of Counseling, co-authored, with two former colleagues, a recent psychological monograph, "Effects on Clients of a Reflective and Leading Type of Psychotherapy."

Dr. James V. Frick, associate professor of clinical speech, will deliver a paper and participate in a Conference on Stuttering Therapy at the State University of Iowa, on June 26-28.

Maurice P. Milliken, assistant professor of engineering research at the Ordnance Research Laboratory, is author of an article on "Applying Air Space Navigation to the problem of Preventing Aircraft Collisions," published in the winter issue of Navigation, the journal of the Institute of Navigation.

Dr. George M. Lott, University psychiatrist, addressed a workshop on Communicating Mental Hygiene Principles to Groups in the Community at the American Orthopsychiatric Association in New York recently.

An article by Vernon V. Aspaturian, associate professor of political science, entitled "The Metamorphosis of the United Nations," which originally appeared in The Yale Review has been translated into Japanese and reprinted in the first issue of a new Japanese journal, The Kokuren Hyoron (The United Nations Review).

Dr. Frederick B. Marbut, professor of journalism, has been named chairman of the Committee on Academic Freedom and Responsibility in Press and Radio of the Association for Education in Journalism. He is also a member of the Committee on the Teaching of the History of Journalism.

Dr. Norman C. Pendered, associate professor of industrial arts education, is the author of a new textbook, "Passive Defense," written while he served as educational specialist in the U.S. Naval Training Publications Center, Washington, D.C.

Dr. Delbert C. Miller, professor of sociology, is author of an article, "Industry and Community Power Structure: A Comparative Study of an American and an English City," published in the February issue of American Sociological Review.

Dr. Leon R. Kneebone, associate professor of botany and plant pathology, gave three talks recently at Kennett Square before the American Mushroom Institute, on "Composting and Pasteurizing"; at Reading before the Associated Mushroom Industries, on "Microorganisms"; and in Toronto, Canada, before the Canadian Mushroom Growers Association, on "Mushroom Diseases and their Control."

Calendar

Friday, Mar. 21

Thesplan show, "Pajama Game," 7:30 p.m., Schwab Auditorium.
Players' production of "Boy on the Beach," 8 p.m., Center Stage.

Saturday, Mar. 22

Thesplan show, "Pajama Game," Schwab Auditorium. Matinee, 2 p.m.; evening show, 7:30 p.m.
Players' production of "Boy on the Beach," 8 p.m., Center Stage.

Sunday, Mar. 23

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.
Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Davie Napier, Holmes professor of Hebrew literature, Yale University Divinity School.

Special broadcast by radio station WDFM, starting at 7 p.m., with the Easter music of Bach, and recorded presentation of the French medieval play, "The True Mystery of the Passion."

Monday, Mar. 24

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Frederick B. Marbut, professor of journalism, on "The Attitude of the Bolivians on Social, Economic, and Political Questions."

SIAM meeting, 7:50 p.m., Room 214, Willard Building. Dr. Eugen J. Skudrzyk, professor of engineering research, on "The Correlation Function and Its Application in Acoustics and Turbulence."

Engineering Mechanics Seminar, 4:10 p.m., Room 203, Engineering "A". Dr. Henri Marcus, special lecturer in engineering mechanics, on "The Mechanism of Formation and Propagation of Elastic Waves in Solid Bodies."

Mineral Economics Seminar, 4:10 p.m., Room 121, Mineral Industries. J. N. Hoffman, research assistant in mineral economics, on "Underground Storage of Natural Gas."

Priestley Lecture, 8 p.m., Room 119, Osmond Lab. Dr. Harold H. Strain, on "Significance of Chloroplast Pigments and of Methods for Their Separation."

Tuesday, Mar. 25

Five O'Clock Theatre production of "Come Italiano" by Jacqueline Fagadaw, 5 p.m., Little Theatre, Old Main.

Philosophy Colloquium, 4:10 p.m., Room 236, Sparks Building. Dr. Richard Gotshalk, instructor in philosophy, on "What Is Philosophy?"

Plant Science Club meeting, 7:30 p.m., Room 111, Tyson Building. John A. Fox, instructor in aeronautical engineering, on "Fundamentals of Rocketry and Earth Satellites."

Physics Colloquium, 4:10 p.m., Room 117, Osmond Lab. Dr. P. S. Signell, physics department, Bucknell University, on "Recent Advances in Knowledge of Two-Nucleon Force Law."

Priestley Lecture, 8 p.m., Room 119, Osmond Lab. Dr. Harold H. Strain, on "Chromatographic Methods and the Chloroplast Pigments of the Higher Plants and Algae."

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Lenten musical service by the Vesper Choir, directed by Willa C. Taylor.
Meteorology Seminar, 1:10 p.m., Room 219, Willard Building. Dr. S. A. Bowhill, assistant professor of electrical engineering, on "Rocket Exploration of the Ionosphere."

Fulbright Aids Available

Lecturing and advanced research assignments are still available for 1959-60 under the Fulbright Act in many countries. Closing dates for applications is April 25.

Vacancies still exist in Argentina, Brazil, Chile, Columbia, Ecuador, Paraguay, Peru, Australia, New Zealand, Burma, India, Pakistan, the Philippines, and Thailand. Information may be obtained from Robert E. Galbraith, Fulbright adviser at the University.

Some openings in the interim programs for 1958-59 in Brazil, Iran, Ireland, and Taiwan are still available also.

Wednesday, Mar. 26

Priestley Lecture, 8 p.m., Room 119, Osmond Lab. Dr. Harold H. Strain, on "Pigments of Algae and Chromatography of Altered Chloroplast Pigments."

Mining Seminar, 4:15 p.m., Room 24, Mineral Industries. M. M. Singh on "Deep Mining Problems in the Kolar Gold Field."

University Christian Association series of faculty papers on "The Responsible University in an Age of Crisis, 8:30 p.m., main lounge, Helen Eakin Eisenhower Chapel. Dr. Merritt A. Williamson, dean of the College of Engineering and Architecture, on "The Faculty Environment to Optimize the Exposure of the Student to the Realm of Values."

Metallurgy Seminar, 4:10 p.m., Room 317, Willard Building. W. G. Fricke, Jr., Alcoa Research Laboratories, on "Surface Phenomena During the Fatigue of Metals."

Thursday, Mar. 27

Priestley Lecture, 4:30 p.m., Room 119, Osmond Lab. Dr. Harold H. Strain, on "Chloroplast Pigments and the Modifications of Chromatography."

Vesper Service, 4:15 p.m., Helen Eakin Eisenhower Chapel. Vesper Choir, directed by Willa C. Taylor, in Lenten musical service.

Slavic Club meeting, 7:15 p.m., Room 111, Boucke Building. Russian language film, "Anna On the Neck," by Anton Chekov.

Mathematics Colloquium, 3:10 p.m., Room 228, Sparks Building. Dr. George Raney, assistant professor of mathematics, on "Sequential Functions."

Analytical Chemistry Seminar, 1:10 p.m., Room 115, Osmond Laboratory. Dr. Harold H. Strain, Argonne National Laboratory, on "Neutron Activation of the Oxy Acids of Phosphorus."

Friday, Mar. 28

Artists' Series program, 8:30 p.m., Schwab Auditorium. Henry Street Playhouse Dance Company.

Priestley Lecture, 8 p.m., Room 119, Osmond Lab. Dr. Harold H. Strain, on "Electrochromatography and Analogous Differential Migration Methods of Analysis."

Fluid Mechanics Seminar, 4:10 p.m., Room 1, Sackett Building. Dr. Leroy H. Smith, Jr., Aviation Gas Turbine Division, General Electric Co., on "Secondary Flow in Turbomachinery."

College of Agriculture faculty meeting, 4:10 p.m., Room 112, Buckhout Lab.

Research Grant Applications Due

Applications for grants-in-aid for research from the Administrative Committee on Research are to be filed no later than April 25 in order for the grants to be available by July 1, according to Dr. M. A. Farrell, Vice President for Research.

Applications should be filed with the dean of the college, in whose office forms are now available.

The intent of the University is that the fund be used primarily to promote fundamental research and creative studies, since support for applied research is more readily available from other sources. Grants are made for one year, and individual sums allocated are determined after all requests and the over-all picture of the needs have been considered.

The grants may be used for purposes specifically relevant to the particular investigations for which the grants are made, but not for general purposes such as attending meetings of learned or professional societies or for increasing departmental research equipment.

Cricket Club Sought

Anyone interested in playing on or supporting a cricket club, whether familiar with the game or not, is invited to get in touch with Dr. R. D. McCammon, visiting research associate in physics, in 101 Osmond, Ext. 2041.

New Computer Facility Installed in Boucke

As of February 1, 1958, Dr. Donald T. Laird was appointed on a half-time basis to be in charge of a unit to be known as Computation Services located in Room 101 Boucke Building. The appointment was announced by Dr. M. A. Farrell, Vice President for Research, under whose guidance the new installation will be operated. Dr. Laird has been associated with the PENNSTAC computer facility located in the Electrical Engineering Department, and will continue half time in his position there.

Equipment installed in Boucke will include the Card Programmed Calculator, which was formerly located in the Accounting Department, and other basic punched card machines. The equipment will be available for educational and research uses by all departments of the University.

It is expected that some of the equipment will be installed this week. Instruction in use of the equipment will be provided by the IBM Corporation, from which the machines are rented. Anyone interested in participating in this initial instruction is invited to call Dr. Laird at once to arrange schedules. Telephone extension for Computation Services is 723, and for the PENNSTAC laboratory is 2142.

The Computer Policy Committee of the University has been giving consideration to all of the computational services on the campus, including PENNSTAC which is located in the College of Engineering and Architecture, XRAC which is located in the College of Chemistry and Physics, the 650 Computer now in the accounting department, and the C.P.C. facility hereby established in Boucke Building. This Committee will advise the administration on computation needs and policies.

Dr. Laird's responsibilities will be to advise and discuss with faculty members any problems they may have where computational facilities might be used. He will be in a position to advise on which of the several computers on the campus can best assist the faculty member in his problem. He also will help to make arrangements for him to use these computers.

German Open House Planned April 18, 19

An open house program sponsored by the department of German and Delta Nu chapter of Delta Phi Alpha, German honorary society, will be held on Friday and Saturday, April 18 and 19.

Horst Pelckmann, of the Philadelphia consulate of the Federal Republic of Germany, will be the featured speaker at a program in the Mineral Sciences auditorium at 8 p.m. on Friday, April 18. German language movies will be shown in the afternoon of April 19 and 20 in the auditorium.

The initiation ceremony for new members of Delta Phi Alpha and the annual banquet will be held at the State College Hotel on Apr. 19.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Segovia, Wagner Chorale To Give Concerts Soon

Andres Segovia, world-famous guitarist, will present a program at the University Monday, Mar. 31, while on Tuesday, Apr. 8, the Roger Wagner Chorale will be heard.

Both programs are scheduled for 8:30 p.m. in Schwab Auditorium and are sponsored by the State College Concerts Association. They are the final programs of the current series.

Segovia is credited with having won for the guitar a distinguished place in the world's concert halls and this year is marking the 30th anniversary of his debut in America.

The 24-voice Chorale is directed by Roger Wagner and since making its debut in 1945-46 has become one of the finest singing groups in America.

Dance Company Presents Unusual Program Tonight

Kaleidoscope, an eight-part excursion into the world of props, colors, and lighting effects, will be presented at 8:30 p.m. tonight (Friday) in Schwab Auditorium by the Henry Street Playhouse Dance Co. of New York.

The modern dance program, utilizing such props as hoops, poles, straps, and discs, is directed by Alwin Nikolais, who has been with the company for nine years. The company is operated by the Henry Street Settlement Board of Directors.

The program is sponsored by the Artists' Series. The Obernkirchen Children's Choir will present the next program of the series on Apr. 16 in Schwab Auditorium.

Tickets for the program of the Choir will be available to non-students on Friday afternoon, April 11, and Saturday, April 12.

Senate Meets Apr. 10

The University Senate will meet on Thursday, April 10 at 4:10 p.m. in the Assembly Room of the Hetzel Union Building.

Church Architecture Shown In Current Exhibition

An exhibition of photographs and original drawings of contemporary church and synagogue architecture has been installed in the gallery of the Hetzel Union Building and will remain until April 13.

The exhibition has been provided by the Church Architectural Guild and the Union of American Hebrew Congregations, and is sponsored by the Committee on Interreligious Affairs in its Religion and the Arts program.

A. William Hajjar, professor of architecture, will present a commentary, with slides, on the subject at the HUB Gallery and Auditorium on Sunday, Mar. 30 at 8 p.m.

The purpose of the current program of the Committee is to (1) explore the meaning and significance of contemporary expressions in the arts; (2) stimulate discussion of the inter-relationship of religion and the arts; and (3) to inform students and faculty of the significance of the arts as a means of communicating religious faith and understanding.

Article By Rev. Shannon Describes Religious Boom

An article by the Rev. Jones B. Shannon, former chaplain to Episcopal students on campus and now executive director of the Church Society of College Work, Washington, D.C., appears in this week's issue of the Saturday Evening Post.

The article refers to the "religious boom" among students during Rev. Shannon's five years at Penn State and describes a heartening and exciting revival in religious faith on college campuses.

No Issue Next Week

There will be no *Faculty Bulletin* next week due to Spring Vacation. The next issue will appear on Friday, April 11, for which items should be sent to the editor by Monday, April 7, at 5 p.m.

British Commander To Talk April 11 At UCA Dinner

Sir Stephen King-Hall, commander in the British Navy, will be the guest speaker at a dinner meeting sponsored by the University Christian Association on Friday, April 11 at 6 p.m. in the Beaver Room of the State College Hotel.

The topic of the address is "Defense in the Nuclear Age." In his recent controversial book of the same name, Sir King-Hall says that there is a "philosophical reason for doubting whether military force is any longer assuredly the best way to counter military aggression of a nuclear type."

Following the address a panel of questioners representing a variety of perspectives will comment upon and question his point of view.

Reservations for the dinner must be made before 12 noon, Thursday, April 10. Price of tickets is \$2.00.

Sackett Exhibit Pictures Cities In 19th Century

An exhibition of 55 prints, titled "The American City of the 19th Century," will continue on display until April 2 in the corridors of the Sackett Building.

The prints show buildings and areas of cities as they appeared in the 1900's. They were selected from the vast collections of the Library of Congress and are on tour being circulated by the Smithsonian Institution Traveling Exhibit Service.

The department of architecture is sponsoring the exhibit on campus.

Student Help Available

Student help for window washing, manual labor, garden and lawn work, and similar jobs is available now, according to Virginia Gordon, assistant in the University Placement Service. Faculty members needing such help should contact Mrs. Gordon, at Ext. 2049.

Ceiga's Music To Be Given At Chapel Service Sunday

An entire Easter worship service of music, composed by George Ceiga, University organist, will be given on Palm Sunday, Mar. 30, at the regular Chapel Service at 10:55 a.m. in Schwab Auditorium.

The Chapel Choir, under the direction of Mrs. Willa Taylor, plus six student instrumentalists, will present the music with Ceiga at the organ.

The music composed by Ceiga follows the order of the communion service of the Anglican Church for the Passiontide season.

Ceiga composed the music last summer and fall, completing it in November, after consultation with Mrs. Taylor on the program for Palm Sunday, traditionally one of music at Penn State. Rehearsals by the choir and the instrumentalists began in January.

"It is challenging music," Ceiga says, "but it was written with the capabilities of the Chapel Choir in mind. It should properly have a choir of a hundred or more voices and brass instrumentalists of outstanding capability to be performed well. It takes good discipline, which is characteristic of the Chapel Choir. The Choir has entered into it with exceptional enthusiasm."

Ceiga composed the music within the general limitations of the Chapel service of worship, but yet obtained something different from that of the usual service. While the Easter period was uppermost in his mind, by changing the words in the Introit and various other sections, it could also be applied to other Church seasons.

"It is not the type of music for a concert," Ceiga points out, "but it is not strictly limited to Easter."

Ceiga used elements of traditional and contemporary music in composing the service. There are some passages of dissonance and others of strict har-



George E. Ceiga

Music For Chapel Choir

mony. There are evidences of pre-baroque and baroque influences.

One of the advantages Ceiga had in composing for the Chapel Choir is that he knew he could divide the choir as needed, with passages for women's voices and others for men's. Some choirs, admittedly, would find difficulty because of this, but he hopes nevertheless that the music will be published and find general acceptance.

Dr. Luther Harshbarger, University chaplain, will lead the service and Preston Williams and Charles E. Minneman, assistant chaplains, will assist.

Condee To Give Paper On Student Values

Dr. Ralph W. Condee, associate professor of English literature, will present the final paper in the current University Christian Association series on "The Responsible University in an Age of Crisis" at 8:30 p.m., Wednesday, April 9, in the main lounge of the Helen Eakin Eisenhower Chapel.

He will speak on the specific topic, "Student Values and Teaching Methods."

Dr. John R. Rackley, dean of the College of Education, is chairman of the program. Discussants of the paper will be Raymond H. Brown, assistant professor of music, and Robert Scholten.

Chapel Hours Given

The Program Center of the Helen Eakin Eisenhower Chapel will be closed from April 2, at 5 p.m. through April 8. It will reopen on April 9 at 8:30 a.m.

The Meditation Chapel and the Roman Catholic Chapel will be open from 8 a.m. to 6 p.m. daily during the recess for the convenience of those who may wish access to this sector of the building.

Senate Committee Meets

The Senate Courses of Study Committee will meet on Monday, Mar. 31, at 9 a.m. in Room 229, Sparks Building.

92 Receive 4.0 Average In Fall Semester Grades

A total of 92 undergraduates in the various undergraduate colleges obtained a perfect 4.0 average in the Fall Semester, 1957-58. The total honors group numbered 810. The College of Education had 32 with perfect averages, and other Colleges showed the following results: Agriculture (16); Business Administration (2); Chemistry and Physics (9); Engineering and Architecture (15); Home Economics (2); the Liberal Arts (11); Mineral Industries (2); Physical Education and Athletics (2); and Division of Counseling (1).

The following is the complete list of perfect-average students:

Allen, John L., E.Sc.; Auerbach, Joan M., H. Ec.; Becker, Dorothy G., Sec. Ed.; Berkebile, Harry E., E. E.; Bertrand, Carol A., El. Ed.; Beswarick, Sandra J., El. Ed.; Bigley, William H., Jr., D. Sc.; Blimline, Nancy L., El. Ed.; Bloom, Jacqueline M., Sec. Ed.; Brickham, William W., Jr., E. Sc.; Brown, Stephen G., Ch. E.; Bundy, Barbara A., El. Ed.; Chamberlain, Richard L., Hort.; Ciarrocca, Mario F., E. E.; Clagett, Donald C., Chem.; Cohen, Stanley L., Arch. Eng.; Conrad, Mary L., Rec. Ed.; Diehl, David C., D. Sc.; Dietz, Geraldine R., El. Ed.; Donovan, Ellen R., A. L.; Esslinger, Joan, El. Ed.; Fogle, Edgar L., E. E.; Fritzsche, Martha L., Bact.; Garman, Clair E., E. E.; Gatzky, John T., Jr., A.B. Chem.; Gemmill, Mary Ann, Sec. Ed.; George, Merle L., E. E.; Greninger, Nancy A., El. Ed.; Goble, Karel G., El. Ed.; Goble, Karen V., El. Ed.; Goldstein, David P., P. M.; Grotzky, Sandra, El. Ed.; Grumer, Eugene L., F. T.; Hile, Patricia A., El. Ed.; Horvath, Irene E., El. Ed.; Haughton, David D., Meteor.; Howarth, Robert A., P. V.; Jaeger, Joan F., El. Ed.; Johnson, Arthur W., D. Sc.; Keller, John S., Sec. Ed.; Kelley, Mary J., Journ.; Kersh, Kathryn S., El. Ed.; Kerlin, Roger L., Phys.; owalski, Lawrence T., A. L.; Lane, Donald M., C. E.; Lapinski, Bernard J., Ph. Sc.; Leitzel, James R. C., Math.; Lehmberg, Robert H., Phys.; Lentz, Dorothy F., El. Ed.; Lyons, John R., Chem.; Mares, Erika A., Sci.; McKee, Madge K., El. Ed.; McKinstry, Doris N., Med. T.; Mentzer, Thomas L., Psy.; Miller, James B., Bus. Adm.; Millham, Paul M., I. Art.; Neel, Mary M., Ph. Ed.; Nicklow, Clark W., Hort.; Nitrauer, Anne E., El. Ed.; Ottobro, Louis G., E. E.; Parnell, Barbara J., Ed.; Paynter, Myrna L., El. Ed.; Peavey, George D., Agro.; Peikert, Jeannette S., El. Ed.; Pivik, Robert W., B. A.; Porter, James D., Aero. E.; Powulus, Robert A., E. E.; Rekas, Karl F., P. M.; Reinbold, David W., M. E.; Ringer, Warren C., Aero. E.; Schlosser, R. Blaine, Ag. Ed.; Schwarz, James C., Psy.; Seaman, Alan M., Ag. Ed.; Smyers, Margaret A., A. L.; Sones, Nancy Jo, El. Ed.; Stempel, Joseph S., A. L.; Stevenson, Ralph C., Phys.; Stouffer, Robert T., E. E.; Stoner, John O., Phys.; Stroud, John S., A. L.; Sundback, Eric H., Hort.; Swank, Marilyn M., El. Ed.; Thaeler, Arthur D., A. H.; Trent, Lavonna J., A. L.; Tickerman, Carl E., El. Ed.; Uhrich, John H., Ch. E.; Weir, Robert M., A. L.; Willits, S. Fern Kaley, Aers.; Woodward, Mary A., A. Art.; Yard, Carol A., H. Ec.; Young, Carole P., Sec. Ed.; Zehner, Frederick H., Gn. Ag.

Industrial Engineering Celebrates 50th Year

The Industrial Engineering Department is celebrating its 50th year of existence at Penn State this year. The first curriculum and department of industrial engineering in the country was initiated here in 1908. Ex-Governor and at that time president of the Board of Trustees, Gen. James A. Beaver, was one of those instrumental in starting industrial engineering work here.

The first graduates, two in number, received their degrees in 1910. Since then, over 1500 have received degrees in the field.

Items of Interest

Howard A. Scheetz, research associate in engineering mechanics, is author of a section on "Piezoelectric Properties of Quartz" for the "Engineering Materials Handbook" recently published by McGraw-Hill Book Co., Inc.

★ ★ ★

Joseph Intorre, administrative assistant in the Institute of Public Safety attended the President's Tenth Anniversary Conference on Occupational Safety this week at Washington, D.C. at the invitation of President Eisenhower.

★ ★ ★

A \$5,750 grant-in-aid has been received by Dr. Norman C. Deno, associate professor of chemistry from the Petroleum Research Fund of the American Chemical Society for research on "Development of a Quantitative Theory Relating Rates of Acid-Catalyzed Reactions to Acid Concentration and Other Changes in Media."

★ ★ ★

Chester Linsky, associate professor of industrial engineering, spoke last week at an all-day automation seminar at Utica, N.Y., sponsored by the Mohawk Valley chapter, No. 78, American Society of Tool Engineers, and Mohawk Valley Technical Institute.

★ ★ ★

Dr. J. J. Kaufman, associate professor of economics, spoke on "The Economic Problems of the Railroad Industry and Their Impact on Labor Relations," before a group of management executives of the New York, New Haven, and Hartford Railroad, recently.

★ ★ ★

Dr. Herbert Steiner, professor of German, is author of a book, "Begegnungen mit Dichtern," essays of Rilke, Valery, Hofmannsthal, and others, published by Maximilians Gesellschaft, Hamburg, Germany.

★ ★ ★

Dr. Arthur L. Harnett, professor of physical education, has been named to the editorial board of the Journal of Health, Physical Education and Recreation.

★ ★ ★

Dr. Joseph Marin, head of the department of engineering mechanics, has provided a chapter on "Stresses, Strains, and Theories of Material Failure for Combined States of Stress" by a book on "Design of Pressure Vessels" to be published by the McGraw-Hill Book Company.

★ ★ ★

Dr. O. Hoyt Tribble, associate professor of psychology and co-ordinator of workshops on the management training staff, addressed a luncheon meeting of Area 5, Pennsylvania League for Nursing, on "Multiple Approach to Supervision, Its Functions and Activities," recently.

An article by Dr. Ruth C. Silva, associate professor of political science, on "Presidential Disability" which recently appeared in the University of Detroit Law Journal was reprinted in the Mar. 13 edition of the Congressional Record.

★ ★ ★

Rabbi Benjamin Kahn, lecturer in Hebrew, spoke on "Religion on the University Campus" at a College night for high school seniors in the Schenley House of the University of Pittsburgh, recently, sponsored by the Pittsburgh area B'Nai B'rith.

★ ★ ★

Dr. Arthur H. Waynick, director of the Ionosphere Research Laboratory, will serve as chairman of one of the sessions of the International Scientific Radio Union meetings in Washington, D.C. later this month. Papers will be presented by seven staff members and graduate students, including John M. Tomlinson, Dr. John J. Gibbons, Anthony J. Ferraro, Gary S. Sales, Dr. William J. Ross, Arthur C. Aikin, Jr., Dr. Erwin R. Schmerling, and Dr. Sidney A. Bowhill.

★ ★ ★

Dr. C. Courson Zelif, assistant professor of zoology, has been invited to attend the Sixth International Congresses on Tropical Medicine and Malaria to be held at Lisbon, Portugal, under the auspices of the Portuguese government. The invitation was extended by the president of the Congresses, Prof. J. Fraga de Azevedo, of the Institute of Tropical Medicine, Lisbon.

★ ★ ★

Dr. Hans Panofsky, professor of meteorology, is co-author of an article on "Large Scale Vertical Motion and Weather, in January, 1953" with Dr. Albert Miller, former instructor. Dr. Hans Neuberger, head of the department of meteorology, is co-author of an article, "Understanding Forecast Terms—Results of a Survey" with John Sherrod, also former instructor. Both articles appeared in a recent issue of the Bulletin of the American Meteorological Society.

Library Hours Announced

The Pattee Library will observe the following hours during the Easter recess:

Wed., April 2 — 7:50 a.m. to 5 p.m.
Thurs., Apr. 3 — 9 a.m. to 5 p.m.
Fri., Apr. 4 — 9 a.m. to 5 p.m.
Sat., Apr. 5 — 9 a.m. to 12 noon
Sun., Apr. 6 — closed
Mon., Apr. 7 — 9 a.m. to 5 p.m.
Tues., Apr. 8 — 9 a.m. to 5 p.m.
Wed., Apr. 9 — 9 a.m. to 10 p.m.

Research Contract Renewed

The National Science Foundation has renewed its contract with Dr. Rustum Roy, professor of geochemistry, for studies on the fundamental chemistry of changes in crystalline phases.

The contract, for \$24,500, is for a three-year period.

Report from the Registrar

WITHDRAWALS (Campus)

- 5 Beifeld, Burton, Coun, Feb. 25
- 2 Bennett, Richard Roy, Coun, Feb. 27
- Gr Bilicic, George William, Engl, Feb. 26
- 4 Bowser, James Dee, BA, Feb. 27
- 5 Brandt, Frederick R., Coun, Feb. 5
- 5 Clarke, Thomas Nash, Coun, Feb. 25
- 4 Doyle, Peter Donald, Journ, Feb. 28
- 2 Fox, James George, Coun, Feb. 3
- 2 Herman, Annette Gail, HEC, Feb. 27
- 4 Ingraham, Thomas Edward, BA, Mar. 4
- Gr Jaquish, Orin W., AgEd, March 3
- Gr Kelley, Ray L., Hist, Feb. 28
- 2 Kraft, Warren V., Aro E, Mar. 1
- Gr Mann, Lenora M., A&L, Mar. 5
- 6 Mendicino, Fedele William, LMR, Feb. 26
- 4 Richards, Michael Myers, LARCH, Mar. 3
- 4 Schaeffer, Mary Eleanor, A&L, Mar. 3
- 6 Shaffer, Allen Dale, ARO E, Feb. 26
- 2 Sherman, Raymond, ARCH, Mar. 5
- Sp Shipman, Margaret Q., Mar. 5
- 2 Spinazzola, Joan, MED T, Feb. 13
- 5 Thompson, Peter A., ME, Feb. 28
- 3 Turel, Stanley P., CHEM, Feb. 28
- 6 Witherite, Dean M., LMR, Feb. 27
- 1 Aunkst, Daniel Delroy, SECED, Mar. 5
- 1 Close, David T., ARO E, Mar. 6
- Sp Cole, Donald Lee, Mar. 12
- Sp Conrad, Anthony William, VI ED, Mar. 1
- 5 Curry, George L., H A, Mar. 6
- 5 Dougherty, Robert Arthur, C E, Dec. 3
- 6 Dreese, Robert Donald, LARCH, Mar. 7
- 2 Gay, David R., PSY, Mar. 11
- 8 Gizara, John R., EE, Mar. 8
- 2 Hagmaier, Louis, D SC, Mar. 7
- Sp John, Gilbert J., Mar. 10
- 2 Kinney, Rhoda Mary, EL ED, Mar. 13
- 2 Kraus, Theodore E., A&L, Mar. 6
- 2 Nakagawa, Nelson K., PHYS, Mar. 3
- 2 Nogich, Edward, COUN, Mar. 7
- 4 Purbaugh, Charles Albert, II, P N G, Mar. 10
- 5 Sezer, Basri, G&M, Mar. 7
- Gr Bard, Henry Wayne, AG ED, March 15
- 2 Bernstein, George B., P M, March 18
- 1 Caskey, Jane U., PSY, March 18
- 2 Childs, Gertrude S., A L, March 19
- Gr Fisher, Harry Landis, GEOL, March 18
- Sp Krockic, Barbara I., SPECIAL, March 3
- 2 Kummer, Gerald Carl, ARO E, March 15
- 2 Petruska, William, COUN, March 18
- 6 Seremula, Roger E., A L, March 18
- 7 Strickland, James D., Jr., COUN, Mar. 20
- Gr Weidner, Donald James, AG ED, Mar. 15

WITHDRAWALS (University Centers)

- 2 Barr, Robert E., ARO E, Feb. 24
- 2 Fenner, Richard James, CER, Mar. 4
- 2 Geesey, William Harold, SECED, Mar. 5
- 1 Linne, Robert Samuel, ARO E, Feb. 28
- 2 Martin, Margaret Ann, P M, Feb. 27
- 2 Meurer, Charles Edgar, ME, Mar. 4
- 2 Nathansohn, Joel Peter, EE, Feb. 27
- 2 Scache, George Thomas, EE, Feb. 25
- 1 Stock, Thomas, BA, Feb. 28
- 2 Zenjohn, Robert Andrew, EE, Feb. 24
- 2 Becker, Harry C., SPECIAL, March 4
- 4 McGeehan, Edward Lawrence, JOURN, Feb. 28
- 2 Hobson, Daniel Jay, ChE, Feb. 12
- 2 Lombardo, Carmen Joseph, HA, Feb. 13
- Associate Degree Program
- 2 Eckman, Jack Elliot, DDT, March 8
- 1 Thomas, Robert Lowell, C E, March 6
- 1 Vitagliano, Edward Michael, I E, Mar. 6

Change of Names

Allison, Suzanne Shawley from Shawley, Suzanne
Cullen, Virginia Dowdell from Dowdell, Virginia Mary
Dodd, Madeline Myers from Myers, Madeline Janet
Dolinski, Joyce Heck from Heck, Edith Joyce
Glickstein, Joan from Katz, Joan
Longenecker, Joan Stern from Stern, Joan Lloyd
Romberger, Margaret Lowrey from Lowrey, Margaret Mary
Wellington, Joan D. from DeLacy, Joan J.
Windham, Dorothy Jean from Barefoot, Dorothy Jean
Cissonne, Barbara Mae from Schweiker, Barbara Mae
Lutes, Elsie from Nelson, Elsie
Lynch, Anne Bate from Bate, Anne Supplee
Muller, Diane Wanner from Wanner, Diane Katherine

Calendar

Friday, Mar. 28

Artists' Series program, 8:30 p.m., Schwab Auditorium. Henry Street Playhouse Dance Company.

Priestley Lecture, 8 p.m., Room 119, Osmond Lab. Dr. Harold H. Strain, on "Electrochromatography and Analogous Differential Migration Methods of Analysis."

Fluid Mechanics Seminar, 4:10 p.m., Room 1, Sackett Building. Dr. Leroy H. Smith, Jr., Aviation Gas Turbine Division, General Electric Co., on "Secondary Flow in Turbomachinery."

College of Agriculture faculty meeting, 4:10 p.m., Room 112, Buckhout Lab.

Saturday, Mar. 29

Cosmopolitan Club, joint party with Sigma Alpha Mu, 8:30 p.m., 312 Locust Lane. Entertainment, dancing, refreshments.

PIAA wrestling finals, Rec Hall, 2 p.m. and 7:30 p.m.

Sunday, Mar. 30

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Chapel Service, Easter Program, 10:55 a.m., Chapel Choir, instrumentalists, and George E. Ceiga, in special music.

Commentary on exhibition of church and synagogue architecture, by A. William Hajjar, professor of architecture, 8 p.m., Hetzel Union Building gallery and auditorium.

Special broadcast by Station WDFM, recorded programs of Bach's "The St. Matthew Passion," at 7 p.m., and T. S. Eliot's "Murder in the Cathedral."

Monday, Mar. 31

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. John B. McCool, director of the Pennsylvania Farm Show, on "Behind-the-Scenes Operation of the State Farm Show."

Mineral Economics Seminar, 4:10 p.m., Room 121 Mineral Industries. Dr. G. J. Young, assistant professor of fuel technology, on "Peak Shaving and Interchangeability."

Meeting of Senate Committee on Courses of Study, 9 a.m., Room 229, Sparks Building.

Faculty meeting, College of Physical Education and Athletics, 7 p.m., Room 241, Recreation Building.

Tuesday, April 1

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. Dr. James Witt, professor of economics, Ohio University, on "A Critique of Income Distribution Models."

Five O'Clock Theatre presentation of a new one-act play, "Patch Pants" by George Cavey, 5 p.m., Little Theatre, Old Main.

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Rev. Preston N. Williams, assistant University chaplain, on "The Risen Christ."

Chemistry Faculty Colloquium, 11 a.m., Room 111, Boucke Building. Dr. M. R. Fenske, director of the Petroleum Refining Lab., on "Vapor-Phase Oxidation of Hydrocarbons."

Physics Colloquium, 4:10 p.m., Room 117, Osmond Lab. Dr. L. Marton, chief, electron physics section, National Bureau of Standards, on "Electron Scattering at Low Energies."

Tuesday, April 2

Baseball, versus Western Maryland, 3:30 p.m., Beaver Field.

Petroleum Refining Lab Receives Added Grant

Research grants totalling \$162,900 have been renewed with the Petroleum Refining Laboratory.

The U.S. Air Force Research and Development Command has granted \$90,000 for continuation of studies on aircraft hydraulic fluids and gas turbine lubricants.

Esso Research and Engineering Co. has given \$60,000 to continue research on the fundamental chemistry of petroleum.

The Pennsylvania Crude Oil Association has given \$12,900 to continue studies on Pennsylvania crude oil and lubricating oils made from it.

Wednesday, April 9

UCA series of papers on "The Responsible University in an Age of Crisis" by Dr. Ralph W. Condee, associate professor of English literature, 8:30 p.m., main lounge of Helen Eakin Eisenhower Chapel, on the specific topic, "Student Values and Teaching Methods."

Mining Seminar, 4:15 p.m., Room 24, Mineral Industries. F. D. Hoyt, research assistant in mining engineering, on "Research in the Dimension Stone Industry."

Thursday, April 10

Senate meeting, 4:10 p.m., Hetzel Union Building auditorium.

Lecture in Religion, sponsored by the College of Liberal Arts, 8:30 p.m., Room 121, Sparks Building. Dr. Mircea Eliade, chairman, department of History of Religion, University of Chicago, on "Yoga and Modern Philosophy."

Meeting of Young Engineering Teachers of the American Society for Engineering Education, 7 p.m., Room 105, Mechanical Engineering. H. P. Zelko, professor of public speaking, on "Effective Communication in the Classroom."

Friday, April 11

Dinner meeting sponsored by University Christian Association, State College Hotel, 6 p.m. Sir Stephen King-Hall, commander, British Navy, on "Defense in the Nuclear Age."

Science Fair Winner To Receive Scholarship

The Sylvania Electric Co. has provided a \$1,000 scholarship to the exhibitor of the grand champion winning award in the Pennsylvania State Science Fair to be held on campus Apr. 26. The company has presented similar awards to the top winner during the past two years.

The scholarship may be used at any college or university.

In addition, the \$500 J. Paul Smith scholarship will be awarded to the Senior High School champion. The committee notes that the grand champion will be chosen from among the six subject winners. The J. Paul Smith scholarship, for use at Penn State, honors the late 1912 graduate of Penn State who was president of the Visking Co., Chicago, Ill.

Exhibitors in the Junior High category will compete for a \$100 Savings Bond as well as for the grand champion award. Other awards include \$25 Savings Bonds and gold and silver medals.

Films Listed For Preview

Materials listed below have been requested. Please call Extension 2051 and give code number of those you would like to see; you will be notified when they arrive so that you can arrange a preview showing in Room 9, Library.

- M-18 Choosing a Leader
- M-19 Rabies
- M-20 Man of America (transplanting of a people; role of I.L.O.)
- M-21 Andy's Animal Alphabet
- M-22 World of Water
- M-23 Younger Generation
- M-24 Life in a Garden
- M-25 Introducing Reptiles
- M-26 Nightmare in Red
- M-27 The Cage (modern man's dilemma)
- M-28 Yellow Leaf (aging)
- M-29 The Pussycat That Ran Away
- M-30 4-H and the Insect World
- M-31 Constitution and Employment Standards
- M-32 U.S. Expansion: The Northwest Territory
- M-33 How Green Plants Make Food
- M-35 By Jupiter (supervisory training film)
- M-36 Pablo Casals
- M-37 Twisted Cross
- M-38 Three, Two, One, Zero, (peace-war in the atomic era)

Heart Trouble Victims Sought For Research

The help of housewives with heart conditions is being sought by Dr. Ruth R. Honey, professor of family economics and housing, in a research project on "Modifying the Home-Making Activities of Cardiac Patients."

Dr. Honey points out that an important phase of the project is to interview housewives with disease of the heart or blood vessels. Questions to be asked in the interview will deal not with the personal nature of the disabilities but with the restrictions on homemaking activities, adaptations the housewife has made to lighten their work load, and other pertinent subjects.

To obtain further information, call Mrs. Marilyn Gerhold at Ext. 2282 during the day or ADams 8-6126 after 5 p.m. The project is sponsored by the Centre County Heart Association.

HUB Hours Announced

The Hetzel Union Building will be open from 8 a.m. to 8 p.m. from April 2 to 7 and resume normal schedule on April 8.

The Terrace Room cafeteria will maintain its usual schedule during the Spring vacation.

The Lion's Den at the HUB will close at 2 p.m. on April 2 and reopen at 7:15 a.m. on April 9.

Dr. Eliade To Speak On Yoga April 10

Dr. Mircea Eliade, chairman, department of History of Religion, University of Chicago, will be the next speaker in the current series of Lectures in Religion of the College of the Liberal Arts.

Dr. Eliade will speak on "Yoga and Modern Philosophy" at 8:30 p.m., on Thursday, April 10, in Room 121, Sparks Building.

Office Keys To Be Given By Campus Patrol

Effective Apr. 1, keys to all University buildings, except residence halls, will be issued by the Campus Patrol instead of by the department of physical plant.

Faculty and staff members or students desiring to obtain or return keys after Apr. 1, should go to the office of the Campus Patrol, now located in Spruce Cottage, rather than to Room 319, Old Main.

Gift Made To Field Lab

Henry J. Stringer, Ligonier farmer, has made a \$1,000 gift to the Southwestern Field Research Laboratory at Rector, Pa. The gift was one of a series which have been received from individuals, industries, and other organizations in southwestern Pennsylvania. Research studies so far have been concerned with forage and grass crops.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Artists' Series Concerts Conclude With Symphony

The Obernkirchen Children's Choir, scheduled for Wednesday, Apr. 16 in Schwab Auditorium, and the Cleveland Symphony Orchestra, scheduled for Sunday, Apr. 20, will conclude the Artists Series for this season.

Tickets for the Choir, priced at \$1.25, will be on sale at the Hetzel Union Building desk from 1 to 5 p.m. Friday, Apr. 11, and 9 a.m. to noon and 1 to 5 p.m. Saturday, Apr. 12. Students began to obtain tickets at noon Wednesday and if tickets remain after the sale to non-students, they will be available without charge to students Sunday afternoon, Apr. 13.

For the Symphony, the tickets, priced at \$1, will be sold between 9 a.m. and noon and 1 and 5 p.m. on Thursday and Friday, Apr. 17 and 18, also at the Hetzel Union Building desk.

Dickson Lectures On Barnard In Simmons Series Tuesday

Dr. Harold E. Dickson, professor of the history of art and architecture, will present the next lecture in the current Simmons Series sponsored by the College of the Liberal Arts on Tuesday, April 15, at 8:30 p.m. in Room 121, Sparks Building.

He will speak on "'Barnard and his Statues'; Tragicomedy in Harrisburg."

The lecture will deal with the episode of Barnard's statuary for the present Capitol building in Harrisburg, and will embody new material and investigation. Dr. Dickson will illustrate the lecture with slides of Barnard and his work.

Noel Coward Play Next For Players

The Penn State Players will present "Tonight At Eight Thirty," by Noel Coward as its next production at Center Stage, starting next Friday, April 18, at 8 p.m.

The play will be given each Friday and Saturday evening until May 24.

Dr. Otto Will To Give Graduate School Lecture

Dr. Otto A. Will, director of psychotherapy at Chestnut Lodge, Rockville, Md., will present the final lecture in the current Graduate School Lecture Series on Monday, April 14, at 8 p.m. in Room 121, Sparks Building.

He will speak on "Human Relatedness and the Schizophrenic Reaction."

Chestnut Lodge is an institution where intensive psychotherapy is provided for patients with various kinds of psychiatric disorders. Dr. Will does some therapy work and also teaches and does consulting work. He conducts regular courses at the University of Maryland, the Washington Psychoanalytic Institute, and Washington School of Psychiatry.

A graduate of Stanford University, he also obtained his doctor of medicine degree there and has taken post-graduate training at the Washington School of Psychiatry and the Washington Psychoanalytic Institute.

British Commander To Talk Tonight At UCA Dinner

Sir Stephen King-Hall, commander in the British Navy and author of the controversial book, "Defense in the Nuclear Age," will speak tonight at a dinner meeting of the University Christian Association in the State College Hotel at 6 p.m.

Dr. Vernon V. Aspaturian, assistant professor of political science, Captain J. P. Roach, professor of naval science, and Dr. James J. Fritz, associate professor of chemistry, will serve on a panel to raise questions about Sir Stephen's proposals and point of view.

Venezuela Featured

A collection of 30 by 40 inch photographic enlargements of "Life in Venezuela" is currently on exhibit in Pattee Library. The exhibit has been loaned by the Creole Petroleum Co. and commemorates Pan American Day, April 14. It will continue until April 16.

Dean Williams Named Special Assistant

Dr. C. O. Williams, dean of admissions and registrar, has been named special assistant to the President for special services, effective July 1.

In the new position, Dr. Williams will study standards, admissions, and recruitment for the University. He will also serve as the President's personal representative in executing details of the many educational projects in which the University will be cooperating with private colleges in the Commonwealth.

The new assignment is expected to entail considerable groundwork and planning in both student and faculty areas. Recruitment of new faculty members on a systematic basis will be one of the major concerns.

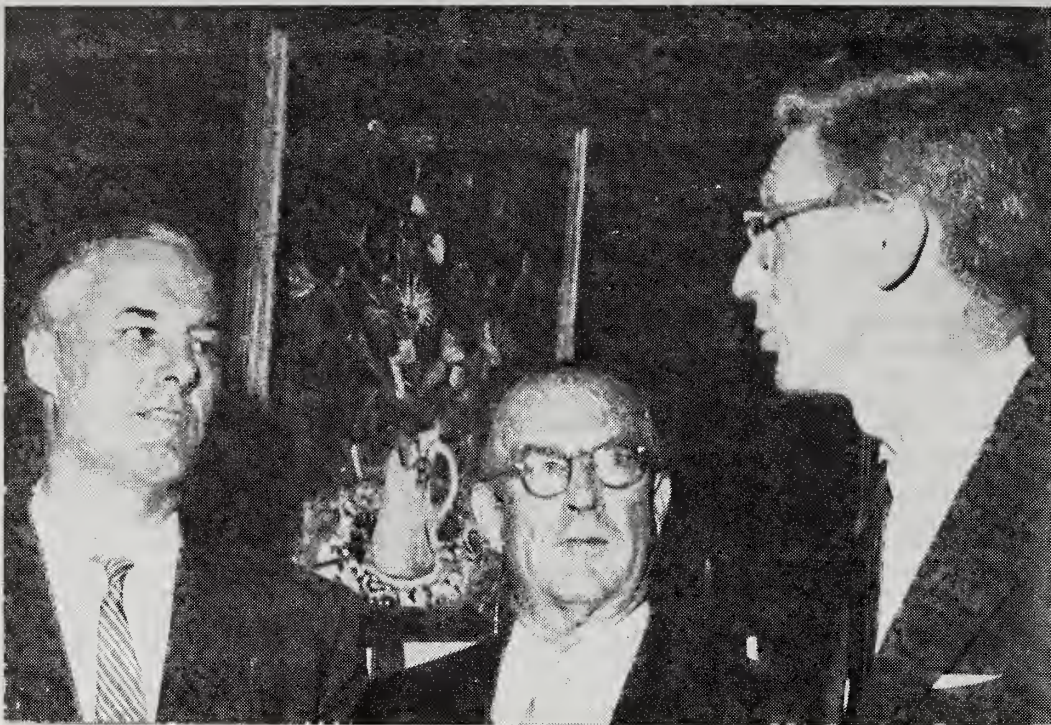
Dr. Iversen Appointed To Adult Education Program

Dr. Robert W. Iversen, associate professor of history and social science at Drake University, Des Moines, Ia., has been named professor of social science and adult education in the Colleges of the Liberal Arts and Education, effective July 1.

Dr. Iversen is the first of the four specialists to be appointed for the new program in liberal education for adults. The five-year program, aided by a grant from the Fund for Adult Education, is designed to develop formal and informal programs of liberal adult education in the State by working primarily with local groups and organizations.

Dr. Cyril F. Hager, since 1956 with the Foreign Service Institute of the U. S. Department of State, was earlier appointed director of the project. He will report May 1.

A former Carnegie Fellow in General Education, Dr. Iversen is currently completing a research project on Communism in American Education for the Fund for the Republic. He is the first of the four specialists to be named to the project. Yet to be appointed are specialists in the arts, the humanities, and group leadership.



Dr. Kent Forster, far right, talks with Johan Nykott, Finnish ambassador to the U.S., left, and John D. Hickerson, U.S. ambassador to Finland, during his leave to teach in Finland last year.

Finnish Children Have Stiff Academic Program

WHILE educators in this country ponder the question of intensifying the study of mathematics, English, science, and foreign languages in school curriculums, their counterparts in Finland are wondering how they can obtain more "education for leisure living" in their system.

This was one of the observations made by Dr. Kent Forster, professor of European history, during his recent 18-month stay in Finland as a Fulbright lecturer.

"By comparison," Dr. Forster observes, "Finnish children get much more mathematics, history, language, and physical science than do ours. On the other hand, they have fewer classes in the social sciences, the arts, vocational fields, and in physical education, although the six-day school week makes the latter's inclusion more than nominal.

"I judged that they also had more homework; at least our children had much more than they do at home."

The desire for education is strong in Finland, Dr. Forster points out. For reasons of both prestige and greater economic opportunity the ultimate aim of a great many Finnish children is to attend the university. In the science fields at the university, because of limited space, an entrance examination limits enrollment. In the humanities, however, relatively few who receive the

certificate of the "lyceum" fail to be accepted at the university.

In some respects the same problems which plague the American educational system are troubling the Finns. More school buildings are needed in the rural areas. Classrooms are overcrowded, with frequently 45 to 50 students in one room. The University of Helsinki needs more laboratory space for its program in the physical sciences. More teachers are needed, even though teaching is an honored profession and one which attracts students.

In theory, and pretty largely in practice, all youngsters are entitled to attend school until 16 years of age. For some families in rural areas, this creates some hardship because the "lyceum" (equivalent roughly to our high schools) may be some distance away, so that the child boards at the school (at government expense) and goes home over weekends.

"Another essential difference between American and Finnish schools," Dr. Forster says, "is that at age 10, the youngster must make a choice in his future. He may elect to continue in the 'folk school' or go to the lyceum and finally the university. If he selects the folk school, his training will be largely vocational; if the lyceum, it will be academic.

"The choice must be made either for scholastic or for monetary reasons, al-

though at the university he has no financial worries, since his education is paid for by the government."

At the end of the lyceum, the student takes a very stiff examination for his certificate. If he fails it, he must return for another year. If he fails the exam a second time, he may not continue in the educational system.

In the university, Dr. Forster found, there is much less formality about class attendance than here. A student is in no way required to go to class. The professor schedules a lecture for a given time and place and if no students appear, there is no lecture.

"There is great emphasis on outside guided reading," he says. "There are no regular examinations or quizzes, except for comprehensive exams at the end of two years, another at the end of three years for the diploma, and again after five years for the degree which is roughly equivalent to our master's degree.

"In lecture periods the student is not encouraged to ask questions but he may schedule conference periods with the professor for further discussion. Most professors emphasize research, rather than teaching, in their daily work."

The emphasis on education, Dr. Forster says, is illustrated by the fact that even the relatively poorer rural areas have very well equipped school buildings, which may include housing for the teachers. Some parents make many

personal sacrifices to keep their youngsters in school. All Finns take pride in the fact that Finland's literacy rate leads the world.

"Much of the youngster's education, which American children get in school, is administered by the parents at home in Finland," Dr. Forster says. "Music, art, and recreation are family interests. The average family has art traditions, with original paintings in almost all homes. Music is also part of family life, and recreation and sports are carried out in the home or in athletic clubs. The family vacation is usually taken at a summer cottage on one of Finland's 60,000 lakes and the father commutes over weekends from his job. The long Christmas holiday and the skiing holiday of one week in February are also devoted to sports."

In addition to emphasis on mathematics in the entire school system, languages are considered essential. Students learn Finnish, Swedish, and usually two other languages (English, Russian, and German dominate). It is not unusual for a lyceum student to know five or six languages. A secondary school teacher of languages is required to study in the countries where the languages he will teach are spoken, so that he has a command of his subjects. "I am sure," says Dr. Forster, "that the American people would not accept certain features of the Finnish system of education. Making a decision at the age of 10 on whether to go ultimately to the university or take the path of vocational training seems too early for us."

"Restricting the university to professional education as it is in Finland, is another feature not congenial to American tradition. And while we are now thinking of returning to more rigorous instruction in the primary and secondary schools in the basic areas of mathematics, language, and science, additional demands made upon teachers within our system in recent years will be difficult to contract."

"On the other hand, American concern with the academic flabbiness of our secondary schools represents a turning more toward the Finnish concept that secondary education should be intensely exacting and rigorous. Indeed, in Finland, the single most formidable hurdle in the educational system is achieving the secondary school diploma. This makes Finnish students more serious and more academically competent at a younger age than American students, though socially less mature."

"You are struck by the current attraction for some Finns of those aspects of American education now under heaviest criticism here. It is doubtful that Finns will be willing to make a great deal more room for those subjects, practices, and activities which have been added to the American program in the past 20 years."

"The Finns are not given to rapid innovation and so their educational pendulum is not likely to duplicate the greater arc of the American."

Items of Interest

Dr. Arthur E. Woodward, assistant professor of chemistry, will present a paper entitled "Dynamic Mechanical Behavior of Partially Crystalline Polymers" at the Silver Jubilee Symposium to be held by the Plastics and Polymers Group of the Society of Chemical Industry in London, England, next week. He will also visit industrial and university research laboratories in Belgium, France, England, Germany, and Holland, and will lecture at various institutions on the continent.

Dr. Paul H. Schweitzer, professor emeritus of engineering research and Dr. A. W. Hussman, professor of engineering research, have been granted a patent entitled, "Apparatus for Extinguishing Engine Exhaust Gas Sparks."

Dr. Harold J. O'Brien, associate professor of speech, presented a series of addresses recently before the Western Pennsylvania Safety Engineering Conference in Pittsburgh on "Human Needs and Communication," "The Tools of Communication," and "Persuasion."

William H. Gotolski, instructor in civil engineering, is the author of an article on "Training Graduate Engineers" which appeared in a recent issue of *Construction*.

Dr. John F. Corso, professor of psychology, is author of an article on "Proposed Laboratory Standard of Normal Hearing" in the *Journal of the Acoustical Society of America*. The article is based on some of the data of the hearing survey conducted locally in 1954 as a project of the Human Factors Research Program.

Dr. Hans Neuberger, head of the department of meteorology, has been named a member of the University Committee on Atmospheric Research of the National Institute of Atmospheric Research.

Dr. E. Willard Miller, head of the department of geography, has been appointed geographic editor of Thomas Y. Crowell and Co. textbook series on geography.

Elmer R. Queer, professor of engineering research, as president of the American Society of Heating and Air Conditioning Engineers addressed the Society recently in Washington, D. C.

Dr. C. R. Carpenter, head of the department of psychology, has contributed chapters to the "Handbook of Zoology," a 14-volume encyclopedia published in Germany, and to "Behavior Evolution," a book soon to be published by the

Yale University Press in honor of the centennial of the publication of Darwin's "Origin of the Species."

Dr. Ruth L. Pike, associate professor of foods and nutrition, will present a paper on "Some Effects of INH-Induced Vitamin B-6 Deficiency in Pregnant Rats" at the American Institute of Nutrition in Philadelphia next week. She is co-author of another paper to be given at the same meeting.

Lorin J. Elder, supervisor of the safety division, attended the President's Tenth Anniversary Conference on Occupational Safety recently in Washington, D. C., at the invitation of President Eisenhower.

Dr. Winona L. Morgan, head of the department of child development and family relationships, represented the University at the Administrators' Conference at the Merrill-Palmer School in Detroit, Mich., this week.

George A. Theodorson, assistant professor of sociology, has been awarded a Danforth Scholarship to attend a summer faculty seminar at the University of North Carolina dealing with "Interpretations of Religion in Sociological Theory," to be held July 20 to Aug. 2.

Dickson Addresses Pittsburgh Architects

Dr. Harold E. Dickson, professor of history of art and architecture, will be the speaker at the Architects Dinner at the Penn-Sheraton Hotel in Pittsburgh on Thursday, April 17, speaking on "Thomas Jefferson, Architect and Classicist."

The dinner is an annual event sponsored by the Combined Natural Gas Companies of Pittsburgh and is attended by members of the local chapter of the AIA, the Pittsburgh Architectural Club, the Professional Consulting Engineers, and the officers of the local chapter of the Producers Council.

Three Granted Leave Extensions

Leaves of absence for three faculty members were extended by action of the Board of Trustees at its recent meeting:

Dr. Jerome K. Pasto, associate professor of management, until June 30, 1959, to enable him to continue in his work with the Food and Agricultural Organization of the United Nations in Rome.

Dr. Elton Atwater, professor of political science, until June 30, 1959, to continue to serve as associate director of the Quaker Program at the United Nations.

Dr. Grant W. Smith, professor of chemistry, until June 30, 1959, to continue his services as director for the summer institutes for science teachers conducted by the National Science Foundation.

Calendar

Friday, April 11

Dinner meeting sponsored by University Christian Association, State College Hotel, 6 p.m. Sir Stephen King-Hall, commander, British Navy, on "Defense in the Nuclear Age."

Players' production of "Boy on the Beach," 8 p.m., Center Stage.

Saturday, April 12

Players' production of "Boy on the Beach," 8 p.m., Center Stage.

Varsity baseball, versus Rutgers, 2:30 p.m., Beaver Field.

Varsity golf, versus Lehigh, 1:00 p.m., Golf Course.

Varsity tennis, versus Western Maryland, 2:30 p.m.

Sunday, April 13

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther Harshbarger, University chaplain.

Monday, April 14

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Miss June M. Collins, associate professor of clothing and textiles, on "Symbolism in Dress."

Mineral Economics Seminar, 4:10 p.m., Room 121, Mineral Industries. T. S. Spicer, professor of fuel technology, on "Natural Gas From the Combustion Engineers Viewpoint."

Graduate School Lecture series, 8 p.m., Room 121, Sparks Building. Dr. Otto A. Will, Jr., director of psychotherapy, Chestnut Lodge, Rockville, Md., on "Human Relatedness and the Schizophrenic Reaction."

Tuesday, April 15

Simmons Lecture Series, 8:30 p.m., Room 121 Sparks Building. Dr. Harold E. Dickson, professor of history of art and architecture, on "Barnard and his Statues": Tragicomedy in Harrisburg.

Plant Science Club meeting, 7:30 p.m., Room 111, Tyson Building. Dr. W. H. Gray, professor of Latin American history, on "By Car over the Highway to Alaska."

Lecture sponsored by the Committee on Interreligious Affairs, 8 p.m., Hetzel Union Building, by Dr. Henry L. Kamphoefner, dean of the School of Design, North Carolina State College, on "Contemporary Church Architecture."

Talk by C. A. Maher, Third U. S. Civil Service Region in Philadelphia, on "Career Opportunities in the Federal Government," 1:10 p.m., Room 121, Sparks Building, sponsored by professional fraternities in the College of Business Administration.

Church Architecture Lecture On Tuesday

Dr. Henry L. Kamphoefner, dean of the school of design, North Carolina State College, will present a lecture on "Contemporary Church Architecture" on Tuesday, April 15 at 8 p.m. in the Hetzel Union Building gallery.

The lecture is part of the current series of "Religion and the Arts" sponsored by the Committee on Interreligious Affairs.

Aquacade Set For Next Week

The annual Aquacade of the Women's Recreation Association will be presented next Friday and Saturday, April 18 and 19 in the White Hall pool. This year's program, entitled "Rhythm Americana" will begin promptly at 8 p.m. Doors will be opened at 7:30 p.m. Tickets may be obtained at the main office in White Hall from 8 a.m. to 12 noon and 1 to 5 p.m. on April 17, 18, and 19.

Faculty meeting, College of Business Administration, 4:10 p.m., Room 111, Boucke Building.

Baseball, versus Bucknell, 3:30 p.m., Beaver Field.

Economics Seminar, 12 noon, dining room "A," Hetzel Union Building. Dr. Meredith Givens, executive director, New York State Interdepartmental Committee on Low Incomes, on "Exploring the Problem of Low Incomes."

Wednesday, April 16

Metallurgy Seminar, 4:10 p.m., Room 317, Willard Building. Dr. J. B. Wagner, assistant professor of metallurgy, on "The Oxidation of Iron Single Crystals."

Artists' Series program of the Obernkirchen Children's Choir, 8:30 p.m., Schwab Auditorium.

Thursday, April 17

Liberal Arts Research Luncheon, 12 noon, dining room "A," Hetzel Union Building. Dr. Henry A. Finch, professor of philosophy, on "De Senectute of the Twentieth Century."

Lecture in Religion, 8:30 p.m., Room 121, Sparks Building, by Dr. Douglas Bush, Gurney professor of English literature, on "The Problem of Belief."

Joint Sigma Xi lecture series and College of Chemistry and Physics Colloquium, 8:15 p.m., Room 119, Osmond Lab. Dr. Homer L. Dodge, scientist, educator, and lecturer, on "Soviet Education: A Challenge to America."

Friday, April 18

Players' production of "Tonight at 8:30," by Noel Coward, 8 p.m., Center Stage.

Fluid Mechanics Seminar, 4:10 p.m., Room 1, Sackett Building. Dr. Hikmet Binark, professor of mechanical engineering, Technical University, Istanbul, Turkey, on "Induced Air Flows in Sprays."

Lecture by Dr. A. O. Saunders, head, department of mechanical engineering, University of London, on "Recent Developments in Heat Transfer," 4 p.m., Room 109, Osmond Lab., and on "Engineering Education," at 7:30 p.m. in Room 105, Mechanical Engineering Building.

German Department Open House. Horst Pelckmann, consul in Philadelphia of the Federal Republic of Germany, featured speaker, 8 p.m., Mineral Sciences Auditorium.

Aquacade by synchronized swimming group of the Women's Recreation Association, 8 p.m., White Hall pool. Also Saturday night.

Mineral Industries Seminar, 4:15 p.m., Mineral Sciences Auditorium. Dr. G. C. Amstutz, professor of geology, University of Missouri, on "The Scope of a Petrology-Mineralogy Laboratory of a Mining Co."

Home Ec Spring Weekend Features Clothing Theme

The ninth annual Home Economics Spring Weekend will be held next Friday and Saturday, April 18 and 19 on the theme, "Clothing and Textiles for Today's Families."

The featured speaker for the two-day program is Vance Packard, Penn State alumnus and author of the book, "The Hidden Persuaders." He will talk on "The Hidden Persuaders in the Field of Clothing and Textiles," on Friday, at 4 p.m., in Schwab Auditorium.

The program also includes many exhibits and demonstrations, beginning at 9 a.m., Friday and continuing through Saturday.

Specialists from industry, retail stores, consumer groups, fashion experts, and clothing and textile home economists will participate in the program along with many members of the faculty of the College of Home Economics.

Torrence Succumbs

Frank M. Torrence, who retired as associate professor of mechanical engineering in 1942, died on Mar. 31 at Centre County Hospital. He served on the staff from 1911 until his retirement and obtained both his bachelor's and master's degrees from Penn State.

German Open House Scheduled Next Week

Horst Pelckmann, Federal Republic of Germany consul in Philadelphia, will be the featured speaker of the open house program of the German department, Friday and Saturday, Apr. 18 and 19.

Pelckmann will speak on Friday, Apr. 18 at 8 p.m. in the Mineral Sciences auditorium. The address is open to the public.

The open house program will also include the showing of German language movies and exhibits by members of the faculty of the department. At 2:30 p.m., Saturday, the movie "The Last Bridge," will be shown in the Mineral Sciences auditorium along with some of the latest German newsreels. The program will be repeated on Sunday at the same time and place.

Exhibits in the first floor cases at Pattee Library will be displayed by Dr. Philip A. Shelley, head of the department, on "Goetheania"; Dr. Albert Buffington, professor of German, on Pennsylvania German dialect and dialect literature; Miss Helen Adolf, professor of German, on Richard Wagner and Bayreuth; Dr. Herbert Steiner, professor of German, on "From the Workshop of an Editor"; and by Nora Wittman, assistant professor of German, on "Foreign Languages in Elementary Schools."

The initiation of new members of Delta Phi Alpha, national honorary in German, will take place on Saturday, April 19 at 6:30 p.m. in the State College Hotel. Consul Pelckmann will give the principal address. The initiation ceremonies will be conducted by Dr. Dagobert de Levie, faculty advisor to the local chapter and chairman of the open house committee, and by graduate student George Padaroff.

Computation Service Instruction Listed

Instruction in the use—including planning applications, wiring control panels, and operation—of the IBM machines which are available through Computation Services, will start on April 21. The original date was April 14.

Two sections of instruction will be offered from 3 to 5 p.m. and from 7 to 9 p.m., Monday through Friday, April 21-25. The same materials will be presented in the two sections. Classes will be conducted by R. J. Porta, field representative of IBM.

Faculty and graduate students who have not yet registered are invited to contact Computation Services, Room 101, Boucke Building, Ext. 723, for further information.

The following machines have been installed and are available for use: Type 026 Card Punch, Type 082 Sorter, Type 402 Accounting machine, Type 604 Electronic Calculating Punch and the Card Programmed Calculator. To be installed later this month are Type 077 Collator, Type 514 Reproducing Punch, and Type 552 Interpreter.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Zoller Named Specialist In Adult Education Program

Edwin W. Zoller, professor of art, has been named specialist in the arts in the Liberal Adult Education program recently instituted. Dr. Cyril F. Hager had been previously appointed to direct the program and Dr. Robert W. Iversen to head the program in the social sciences.

A graduate of Penn State, Zoller joined the extension staff on a part-time basis in 1927 and has been connected with the University since then. He came to the campus in 1956.

World University Service Presents Program Saturday

A program of international scope, entitled "Around the World in 80 Minutes," will be presented Saturday, April 19, starting at 3 p.m. in the Hetzel Union Building Ballroom.

Sponsored by World University Service, the program is the first in a series of week-long events planned in connection with the WUS drive for funds. There will be dances from Spain, South America, Hawaii, and Germany; flute and violin music from India; folk songs from Czechoslovakia; and exhibits from many countries, including Pakistan, Formosa, India, Indonesia, Ghana, and others.

World University Service is an international organization to give assistance to university communities around the world. It began in 1919 as the European Student Relief organization. With headquarters in Geneva, Switzerland, the organization has branches in 41 countries.

Col. Miller To Speak

Col. Francis P. Miller, of Charlottesville, Va., a frequent speaker on campus, will speak on "Resistance to Integration" on Sunday, April 20, at 3 p.m., in the lounge of the Helen Eakin Eisenhower Chapel, sponsored by the University Christian Association.

Norton To Give Next Liberal Arts Lecture

Dr. Paul A. Norton, associate professor of the history of art and architecture, will present the next lecture in the current Liberal Arts Lecture Series at 8 p.m., Wednesday, April 23, in Room 121, Sparks Building.

He will speak on "Benjamin H. Latrobe—An Essay on Landscape."

Author of a number of papers on American architecture, Dr. Norton has been especially interested in Latrobe, who was one of the most distinguished architects in the early 1800's. Latrobe had charge of the design and construction of the United States Capitol from 1803 to 1812 and again from 1815 to 1817.

Cleveland Symphony In Last Artists' Series Program

The Cleveland Orchestra, with George Szell conducting, will present the final program of the Artists' Series at 8:30 p.m. Sunday in Recreation Building.

Tickets, priced at \$1.25, will continue on sale at the main desk of the Hetzel Union Building through Friday, and possibly on Saturday if tickets remain.

The Orchestra, now in its 40th season, will include on the program, "Partita for Orchestra" by William Walton, a composition commissioned for the 40th anniversary of the Orchestra. The program also will include Overture, "The Roman Carnival," Opus 9, by Berlioz; Overture to "Rienzi" by Wagner; and Brahms' Symphony No. 1 in C minor, Opus 68.

Bramble To Head Purdue Department

Dr. William C. Bramble, acting director of the school of forestry, has resigned to become head of the department of forestry at Purdue University, effective July.

A graduate of Penn State, he joined the faculty in 1937 and has been acting director for the past three years.

AAUP To Discuss Salary Trends

The topic "Trends in Faculty Salaries in the United States" will be discussed at the meeting of the local chapter of the American Association of University Professors on Monday, April 21, at 8 p.m. in Room 110, Electrical Engineering.

Dr. Vernon W. Myers, associate professor of physics, chairman of the committee on salaries, tenure, and promotions, will present the talk. Recommendations of the committee for the 1959-61 biennium will be discussed.

Chemistry Department Has New Administrative Setup

A reorganization of the administrative set-up of the department of chemistry has been approved by the Board of Trustees.

Dr. W. Conard Fernelius will continue as head of the department; Dr. A. Witt Hutchison has been named associate head; and Dr. Thomas S. Oakwood assistant head.

The new alignment will permit Dr. Fernelius to chart, develop, and speed achievement of the department's long-range objectives while permitting him to continue his extensive research in inorganic chemistry.

Dr. Hutchison will be responsible for undergraduate students, budgetary control, and various administrative functions.

Dr. Oakwood will be in charge of the department's graduate and research programs.

Jazz Drawings On Exhibit

An exhibition of "Jazz Drawings" by Bruce Mitchell, known as the "Artist Impresario of Jazz" is currently on display at the Hetzel Union Building gallery. Mitchell is the new artist-in-residence at the University of Pittsburgh, where he held a one-man show the past winter. The exhibition will continue until Apr. 23.

Senate Minutes

Minutes of the Meeting of April 10, 1958

The University Senate met at 4:10 p.m. on Thursday, April 10, 1958 in the Assembly Room of the HUB with President Eric A. Walker presiding. The minutes of the March meeting were approved as printed in the Faculty Bulletin for March 14, 1958. One hundred thirty-one senators signed the roll.

Communications from University Officers

E. B. vanOrmer announced that the National Academy of Sciences-National Research Council questionnaire, asking for a census of graduate students for the current year, meant the inclusion of all graduate students, not just doctoral candidates, and also any graduate student enrolled last summer who was expected back this summer.

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: D. V. Josephson (F. J. Doan), F. W. Peikert (H. V. Walton), E. R. Queer (E. R. McLaughlin), H. O. Triebold (C. O. Clagett), N. R. Sparks (W. E. Meyer), Hummel Fishburn (G. W. Henninger), E. L. Keller (T. S. Goas), A. A. Benson (P. M. Alt-house), L. S. Roudiez (W. S. Smith), and Albert Christ-Janer (E. W. Zoller).

Change in Committee Membership

The Committee on Committees announced the appointment of D. Ann Schultz to replace Mary B. Allgood on the Committee on Extension Policy for the remainder of the academic year 1957-1958.

Reports of Standing Committees

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A" and moved its adoption. The motion was seconded and passed. The report is on file in the office of the secretary.

H. K. Schilling, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report which had been distributed with the agenda as Appendix "B." He stated that since this report applied only to the writing skills he would like to change the second paragraph to read:

To implement this basic principle with respect to writing skills the Committee on Educational Policy makes the following specific recommendations:

He also presented the following as a substitution for the proposed item eight in the report:

8. It shall be understood that the Senate Committee on Academic Standards has the responsibility and authority for seeing that proper standards are maintained with regard to these requirements.

Mr. Schilling then moved the adoption of the changed report which reads as follows:

Recommendation Concerning Competence in the Use of English

The achievement of competence in the use of the English language has been specified by the Senate as one of the objectives of general education at this University.

To implement this basic principle with respect to writing skills the Committee on Educational Policy makes the following specific recommendations:

1. Competence in the use of English shall be a requirement for the baccalaureate degree in all curriculums of the University.
2. Minimum competence in English usage shall be defined as the level of achievement equivalent to that required for passing English Composition 5 or its equivalent as approved by the English Department.
3. A student shall not be permitted to register as a Junior (as defined by the H rules) until he has completed English Composition 1 and 5 or their equivalents.
4. New, or transfer, students shall not be admitted with junior or senior standing unless they meet the requirement stated in paragraph 2.
5. Only those applicants shall be admitted to the University as freshmen who are deemed competent to enter English Composition 1, or have unusually high scholastic ability in other respects.
6. Adequate remedial work shall be made available during summer sessions or by extension for those who, because of deficiencies in English, do not qualify for registration.
7. The requirements pertaining to admission and those pertaining to graduation shall become effective beginning with the

freshmen admitted for the fall semester, 1960.

8. It shall be understood that the Senate Committee on Academic Standards has the responsibility and authority for seeing that proper standards are maintained with regard to these requirements.

9. The Senate shall request the University administration to inform the public, and particularly those responsible for secondary education, of these policies and regulations.

The motion was seconded. In the discussion A. W. VanderMeer moved that the report be amended by deleting item 5 and renumbering the remaining items, and that items 6 and 7 be editorially changed to take into account the deletion of item 5. The motion was seconded and after a lengthy discussion was defeated. D. G. Thevas moved that item 5 be referred to the Senate Committee on Admissions for consideration. The motion was seconded and lost. The motion to adopt the recommendation of the Committee on Educational Policy was passed.

H. B. Sprague for the SENATE COMMITTEE ON MILITARY INSTRUCTION presented the report which had been distributed with the agenda as Appendix "C" and moved its adoption. The motion was seconded. F. J. Simes moved that Regulation S-1-c of the Regulations for Undergraduate Students 1957-1958 be amended by adding the words "by the President of the University or the Senate Committee on Military Instruction." The motion to amend the Regulation was seconded and lost. O. N. Rigley, Jr. moved that the change in Regulation S-1-c as recommended by the Committee on Military Instruction be deleted.

The motion was seconded and passed. The motion to adopt the recommendations as amended was passed. Regulation S-1 now reads:

S-1. Four semesters of R.O.T.C. instruction in one of the established units shall be required of each male student except in the following cases:

- a. An alien, a student physically unfit, a student taking special work for a limited period, a part-time student who is a candidate for a degree, or a student who at the time of admittance has passed his twenty-third birthday;
- b. A student who is a graduate of another college or a student who enters this University with higher than freshman standing, unless he has begun the required basic R.O.T.C. course at another institution;
- c. No change;
- d. No change;
- e. No change;
- f. No change.

D. H. McKinley, Chairman of the SENATE COMMITTEE ON ADMISSIONS, presented the report which had been distributed with the agenda as Appendix "D" relative to the entrance requirements to the proposed new two-year Associate Degree Curriculum in Chemical Technology as submitted by the College of Chemistry and Physics, and moved its adoption. The motion was seconded and passed.

Applicants for admission to the Chemical Technology Curriculum must have completed 3 units of English, 2 units of Mathematics, 1 unit of Science. Applicants not meeting these requirements who submit evidence of adequate mathematics aptitude may be admitted to this curriculum.

J. F. Bradley, Chairman of the SENATE COMMITTEE ON SCHOLARSHIPS AND AWARDS, presented the report which had been distributed at the meeting and moved its acceptance by the Senate. The motion was seconded and passed. The report is as follows:

John W. White Medal

Nitrauer, Anne E. Education

John W. Fellowships (\$600 each)

Douglas, Donald C. Chem Eng
Fochler, Francis J. Pre Med
Kowalski, Lawrence Arts and Letters

Evan Pugh Medals

Seniors

Bloom, Jacqueline M. Education
Fritzsche, Martha L. Bacteriology
Harrison, Paul C. Psychology
Larson, Bror O. Elec Eng
Schrimper, Ronald A. Agr Econ & Rur Soc
Strawbridge, Lee Roy Elec Eng

Juniors

Becker, Dorothy Education
Cryder, Paul Bus Ad
McKee, Madge K. Education
Porter, James D. Aero Eng
Warner, Frank Eng Sci

Unfinished Business

President Walker stated that at the last meeting of the Senate R. W. Stone, for the SENATE COMMITTEE ON RESEARCH POL-

(Continued on page four)

Groth Institute Founded To Collect Crystal Data

A world center for the revision of an encyclopedia of crystal chemistry and physics—to be known as The Groth Institute—has been established at the University with Dr. Ray Pepinsky, research professor of physics and director of the X-ray and Crystal Structures Laboratory, as director of the Institute.

Dr. John A. Sauer, head of the department of physics, will serve as the University's administrative representative.

The encyclopedia is known as "Chemical Crystallography" and was issued by the German crystal chemist, physicist and mineralogist, Paul Henrich Ritter von Groth, in the years 1906 to 1919.

Groth's compilation of crystal properties is still considered of great value to natural scientists but it was conceived before the discovery of x-ray diffraction and crystal structure analysis. Therefore it contains little information compared to that now available relating crystal structures and chemical and physical properties.

The first revision of the encyclopedia will take 10 years, the first two of which will be concerned with data collation. Further revisions will be required continually, since information on crystals is being collected so rapidly.

Dr. Vladimar Vand, associate professor of physics, is already supervising data recording and machine computations.

Dr. Pepinsky will serve as editor-in-chief of the encyclopedia, with an editorial board consisting of chemists, physicists, mineralogists, and metallographers from all parts of the world.

A conference to be attended by present and possible new American participants in collating, measuring, and interpreting phases of the program will be held next Friday and Saturday, April 25 and 26, on campus, sponsored by the Air Force Office of Scientific Research, Solid State Sciences Division. The conference will include lectures and discussions on crystallography and on the procedures to be used in handling the mass of information which scientists will be contributing to the project in the future.

Mrs. Anderson In New Post

Mrs. Edith Anderson, formerly assistant to the Dean of Women, has been appointed administrator of academic personnel records in the department of personnel services, to maintain records of academic personnel with regard to matters such as service and growth, and academic tenure. For the next several weeks she will consult with deans of the Colleges, or their representatives, concerning the type of information the University expects to develop in its academic personnel files.

Retirement Of Eight Announced

Dr. Henry W. Popp, head of the department of botany and plant pathology, will retire July 1, after serving the University in various capacities since 1917. A graduate of Penn State, he served as assistant in zoology and entomology during his senior year and became assistant in botany immediately after graduation, serving three months before leaving to head the biology department at Lock Haven STC. He returned to Penn State in 1920. In 1922 he received his master's degree here, and shortly thereafter went to Boyce Thompson Institute, while on leave from his position here. He completed work for his doctor of philosophy degree at the University of Chicago in 1926 and returned to Penn State. In 1930, he became associate professor, in 1937 full professor, and in 1950 was named head of the department.

Allen L. Baker, 4-H Club leader and professor of agricultural extension, will retire July 1. He joined the 4-H Club staff in 1920 and the following year was named leader of the work. A graduate of Ohio State University in 1917, where he obtained his master's degree in 1931, Baker also did special study at Cornell in extension methods. He has been responsible for the inauguration of 4-H Club Week and Leadership School. He aided in the establishment of the National 4-H Foundation in Washington, D. C., and served three years as a trustee.

Ray V. Watkins, scheduling officer, will retire July 1 after nearly 34 years of service in various capacities. In 1920, he was named principal of the State College elementary schools and in 1924 was appointed instructor in English composition at the University. In 1930 he was named assistant professor of English composition and in 1935 became scheduling officer. Earlier this year he was one of the one hundred appointees attending the Education Conference called by the Governor in Harrisburg. Very active in community affairs, he has served as school director in the Borough for many years and as secretary of the State College and College Area boards. For 20 years he has been a member of the State College Recreation Board, and for more than 25 years has been a member of Alpha Fire Co.

Gilbert D. Thomas, associate professor of industrial engineering, will retire July 1 after more than 30 years on the faculty. A graduate of Penn State, he held a number of positions in industry before coming here in 1927. He is a member of Tau Beta Pi, American Society for Engineering Education, and the American Management Association.

John E. Nicholas, professor of agricultural engineering, will retire July 1 with emeritus rank after 29 years on the faculty. Most of his service has been connected with research in electro-agriculture, and he is the author of many papers on milk cooling, electric brooding, infrared radiation, electric lighting, food freezing and similar subjects. He is a fellow in the American Society of Agricultural Engineers and the American Society of Refrigerating Engineers.

Dr. Lawrence L. Huber, professor of agronomy, will retire with emeritus rank on July 1. He has been on the faculty since 1943, having served previously at the University of Illinois and in the Ohio Agricultural Experiment Station. Much of his research has been on corn breeding, on which he has written many papers. He has been chairman of the Northeast Corn Improvement Conference and a member of the Corn Belt Improvement Conference. He was honored at the Pennsylvania Farm Show this year for his contributions to corn breeding work.

Dr. F. Raymond Smith, professor of physics, will retire July 1, with emeritus rank. He has been on the faculty since 1919, and was named professor of physics in 1955. Previously he had served as science teacher in high schools in Michigan, as instructor in physics at Kansas State College, and as engineer for Western Electric Co. in New York. He is a fellow in the A.A.A.S., and member of the American Physical Society, Sigma Xi, Sigma Pi Sigma, and Sigma Nu.

Dr. Herbert Steiner, professor of German since 1946, will retire July 1 with emeritus rank. A native of Switzerland, Dr. Steiner came to the United States in 1940. For 10 years he was editor of the literary review, "Corona" and has edited the publications "Aurora" and "Mesa." He has also edited the 12-volume edition of the works of the poet Hugo von Hoffmannsthal. He had taught previously at the University of Zurich, Switzerland, and at Rutgers University, Smith College, and Wheaton College.

Hassler's Book Selected Southern Book of Year

The book, "General George B. McClellan: Shield of the Union," by Dr. Warren W. Hassler, Jr., assistant professor of history, has been chosen one of the "Southern Books of the Year" by the Southeastern Library Association and will be exhibited this year at public and university libraries throughout the country.

Items of Interest

Dr. Donald B. Swegan, assistant professor of physical education, presented a paper titled, "Individual Variations in Blood Lactate Concentration During Submaximal and Maximal Exercise," at the national convention of the American Association of Health, Physical Education, and Recreation in Kansas City, Mo., recently. He is also co-author, with Gene T. Yanosky, instructor in physical education, of an article, "Effect of Repetition Upon Speed of Preferred-Arm Extension" which appears in the March issue of The Research Quarterly of the Association.

Dr. Vance G. Sprague, research agronomist at the U.S. Pasture Research Laboratory, is currently serving for two weeks as visiting lecturer at Cornell University. He is working with research workers and graduate students in forage crop production, soils, and plant improvement.

Dr. Harry D. Harootunian, instructor in history, presented a paper on "Progress in Japan" at the annual meetings of the Association for Asian Studies in New York recently. The paper dealt with the dissolution of the Samurai as a class in Japan during the last century.

Dr. H. Trevor Colbourn, assistant professor of history, will present a paper on "The Historical Perspective of the 18th Century American" tomorrow at the meeting of the American Studies Association at Princeton, University.

Dr. Edward C. Thaden, assistant professor of history currently in Helsinki, Finland, on a Fulbright grant, has received a grant from the Social Science Research Council to enable him to spend some time in libraries and archives in Leningrad and Moscow during the spring and summer. He is writing a book on "Conservative Nationalism in Tsarist Russia, 1800-1917."

F. Cuthbert Salmon, associate professor of architecture, addressed the annual convention of the International Council for Exceptional Children in Kansas City, Mo., recently. He spoke on "Designing Schools to Serve the Physically Handicapped Child." He is project director of an architectural study of rehabilitation centers in the United States.

Dr. Louis Dupree, associate professor of anthropology, served as chairman of the session on "Anthropology in the Armed Services" at the annual meeting of the Society for Applied Anthropology recently in Syracuse, N. Y. Dr. Paul Baker, research associate in physics, read a paper on "Anthropology and the Army," at the same session.

Calendar

Friday, April 18

Lecture by Dr. A. O. Saunders, head, department of mechanical engineering, University of London, on "Recent Developments in Heat Transfer," 4 p.m., Room 109, Osmond Lab., and on "Engineering Education," at 7:30 p.m., in Room 105, Mechanical Engineering Building.

German Department Open House, Horst Pelckmann, consul in Philadelphia of the Federal Republic of Germany, featured speaker, 8 p.m., Mineral Sciences Auditorium.

Aquacade by synchronized swimming group of the Women's Recreation Association, 8 p.m., White Hall pool. Also Saturday night.

Mineral Industries Seminar, 4:15 p.m., Mineral Sciences Auditorium. Dr. G. C. Amstutz, professor of geology, University of Missouri, on "The Scope of a Petrology-Mineralogy Laboratory of a Mining Co."

Dinner of Pi Mu Epsilon and teachers of mathematics at Penn State Centers, 6:30 p.m., Autoport. Dr. Ben Euwema, dean of the College of the Liberal Arts, on "The Place of Mathematics in a Liberal Education."

Lecture by Dr. A. K. Blackadar, associate professor of meteorology, 7:30 p.m., Room 111, Boucke Building, on "Artificial Earth Satellite Orbits," sponsored by Alpha Nu, honorary astronomy society.

Saturday, April 19

World University Service program, 3 p.m., Hetzel Union Building ballroom. Exhibits, dances, and musical presentations.

Varsity track, versus Navy, 1 p.m., Beaver Field.

Varsity tennis, versus Maryland, 2:30 p.m. Aquacade by synchronized swimming group, Women's Recreation Association, 8 p.m., White Hall pool.

German language movies, 2:30 p.m., Mineral Sciences Auditorium, as part of German department open house.

Sunday, April 20

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Chapel Service, 10:55 a.m., Schwab Auditorium. Col. Francis P. Miller, Charlottesville, Va.

Artists' Series program by the Cleveland Symphony orchestra, 8:30 p.m., Recreation Building.

German language movies, 2:30 p.m., Mineral Sciences Auditorium, as part of German department open house.

Talk by Col. Francis P. Miller, 3 p.m., Helen Eakin Eisenhower Chapel lounge, sponsored by University Christian Association, on "Resistance to Integration."

Monday, April 21

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Readings by Kenneth Williams, Elizabeth Harned, and Floyd Santoro, students in interpretive reading.

AAUP meeting, 8 p.m., Room 110, Electrical Engineering. "Trends in Faculty Salaries in the United States," led by Dr. Vernon Myers, chairman of the committee on salaries, tenure, and promotions.

Engineering Mechanics seminar, 4:10 p.m., Room 203 Engineering "A," Dr. Henri Marcus, special lecturer in engineering mechanics, on "Stress and Strain in Flexible Plates."

Mineral Economics Seminar, 4:10 p.m., Room 121, Mineral Industries. Dr. C. R. Kinney, professor of fuel technology, on "Industrial Chemicals from Natural Gas."

Mineral Industries Seminar, 4:15 p.m., Mineral Sciences Auditorium. Dr. Fred M. Bullard, professor of geology, University of Texas, on "Particutin — Mexico's Newest Volcano."

Economics Faculty Seminar, 12 noon, dining room "C," Hetzel Union Building. Dr. Lester Chandler, professor and chairman of the department of economics and sociology, Princeton University.

Tuesday, April 22

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Dr. Chester T. McNerney, professor of education, in charge.

Physics Colloquium, 4:10 p.m., Room 117, Osmond Laboratory. Dr. Radah R. Roy, assistant professor of physics, on "Energy and Angular Distributions of Fission Fragments by a New Technique."

Five O'Clock Theatre production of "Sketch of a Sad Summer," by David Stekol and directed by Gardner Tillson, 5 p.m., Little Theatre, Old Main.

Wednesday, April 23

Meeting of the Penn State chapter of the American Society for Metals, 7:30 p.m., Mineral Sciences Auditorium. Dr. E. S. Machlin, professor of metallurgy, Columbia University, on "Dislocations."

Mining Seminar, 4:15 p.m., Room 24, Mineral Industries. William Lane, graduate assistant in mining, on "Cyclic Materials Movement in Mine Haulage Systems."

Thursday, April 24

Jewish Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Rabbi Benjamin M. Kahn, in charge.

Meeting of the faculty, College of Mineral Industries, 4:10 p.m., Mineral Sciences Auditorium.

Meeting of the faculty, College of the Liberal Arts, 4:10 p.m., Room 121, Sparks Building.

Lectures in Religion series, 8:30 p.m., Room 121, Sparks Building. Dr. Charles E. Raven, visiting professor of philosophy of science, University of Cincinnati College of Medicine, on "Recent Changes in the Relation of Religion and Science."

Friday, April 25

Mathematics Colloquium, 4:10 p.m., Room 305, Sparks Building. Dr. Theodore Skolem, University of Oslo, on "Diophantine Approximation."

Prayers' production of "Tonight at 8:30," by Noel Coward, 8 p.m., Center Stage.

Fluid Mechanics Seminar, 4:10 p.m., Room 1, Sackett Building. Dr. Hikmet Binark, professor of mechanical engineering, Technical University, Istanbul, Turkey, on "Induced Air Flows in Sprays."

Mineral Industries Colloquium, 4:10 p.m., Mineral Sciences Auditorium. Dr. Philip H. Abelson, director, Geophysics Laboratory, Carnegie Institute, Washington, D.C., on "Geochemistry of Organic Substances."

Film Reservations For Fall Semester Urged Now

Faculty members who plan to use films in the fall semester of 1958 are urged to reserve them with the Audio-Visual Aids Library at their earliest convenience to avoid disappointment. It is pointed out that orders for the next school year are now starting to arrive from other institutions.

If definite dates cannot be established at this time, it is suggested that films should be scheduled for blocks of three or four dates encompassing the anticipated date. This block can be reduced to the single date later when class schedules and meeting places are announced.

Order blanks will be furnished on request at Room 3, Pattee Library.

Industrial Exhibit In HUB

Some 40 industrial firms throughout the country will be represented in the Penn State Industrial Exposition, sponsored by the students of the College of Engineering, to be held Wednesday and Thursday, April 23-24, in the Hetzel Union Building.

Senate Minutes

(Continued from page two)

ICY, had presented a report for the committee and J. A. Sauer had offered an amendment for Section II, Propositions. After discussion it was moved, seconded, and passed to postpone the discussion until the next meeting. Since the March meeting Mr. Sauer has met with the committee and agreement was reached on a report which was distributed with the agenda as Appendix "E" and which Mr. Stone will now present as a new report. Mr. Stone moved the adoption of the report. The motion was seconded and passed. The report is as follows:

I. Statement of Principle
The fundamental purpose of a university is the advancement of knowledge for the benefit of society. Its role is not primarily to initiate actions and make decisions on social issues; but rather its responsibility is to ascertain the facts, to develop understanding, and to organize and disseminate the information, thus making it available when needed. This dissemination includes the training of persons to use knowledge, directly or indirectly, for the public good; such educational activity is an essential part of the concept "advancement of knowledge."

Mankind has found that it is necessary to devote a due amount of energy to the search for new knowledge and understanding. Our environment is so constituted that by recording information about it and building up a body of more or less abstract knowledge concerning it, we can react to it more advantageously. Man needs to know his world in order that he may adjust to it and survive. It has been recognized, furthermore, that a certain separation of responsibility between the cognitive and executive activities is ultimately to the advantage of society. Those who are engaged in scholarly investigation should be objective, free from bias and not committed to a particular course of action or end result. This objective viewpoint requires a protection from extraneous influences; the purpose of this protection is to ensure the accuracy and objectivity of the information which is obtained and reported. Thus, it is the well-being of society which justifies the existence of universities and many of the principles by which they are governed.

The university has a commitment to support productive scholarship including creative work in the arts and humanities. World society depends on its universities to extend the boundaries of basic knowledge. Therefore, every university has an obligation to contribute to that extension and ensure that the knowledge which is sought and taught within its walls is reliable and up-to-date.

II. Corollaries

1. Research is a primary function of this

University. It is in its own right a part of the contribution which The Pennsylvania State University is obligated to render to the people of the Commonwealth.

2. It is a responsibility of the University to maintain conditions conducive to the birth and early growth of new ideas. This includes the recognition of the essential condition of freedom of inquiry—an atmosphere in which individual initiative, curiosity, and sensitivity to new ideas is encouraged. Many new ideas will prove to be unsound, but their validity should be established by discussion, criticism and experimentation, not by authoritative opinion or the sanction of custom. This freedom of inquiry is an essential condition for research which the University should maintain for the benefit of society.

3. The advancement of knowledge depends on dissemination of information as well as discovery. As research is an activity which ultimately benefits all people, the results of investigation should be made known promptly. Moreover, there is the further need to organize and interpret the results for the benefit of the general public, and to present effectively new information to teachers, potential research scholars, and others interested in applying the results of research in their particular fields.

4. Research is essential to the success of instruction. It is the main assurance that what is taught is modern and abreast of current thought. Those who are associated with research can impart a freshness and vitality to their instruction and a consciousness of the reasons for their interpretations, which is of great value to all students. Furthermore, a strong reputation for research accomplishment is an important factor in attracting able faculty and graduate students, who in turn will enhance the quality of both instruction and research.

5. Research at the University should be concerned primarily with the acquisition and interpretation of basic knowledge appropriate to each field of scholarship.

Special Notices

The Colleges are reminded that the names of the elected senators are to be submitted in writing to the secretary before the May meeting. The secretary will read the names at the May meeting. The next regular meeting will be on May 1, 1958 at 3:10 p.m. in the HUB. The agenda will be distributed on April 17, 1958. The meeting adjourned at 5:07 p.m.

C. O. Williams
Secretary

Liberal Arts Adds Lecture

Sidney Painter, head of the department of history at Johns Hopkins University, will speak on "French Chivalry" on Thursday, May 8 in the final lecture of the Liberal Arts Lecture Series.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Science Fair Exhibits Shown Tomorrow In HUB

The annual Pennsylvania State Science Fair will be held tomorrow, with exhibits in the Hetzel Union Building open to the public from 2 to 5:30 p.m.

Twenty-four members of the faculty, who will serve as judges, will meet with high school and junior high school students showing their exhibits on Saturday morning and winners will be announced at a luncheon at noon.

The Science Fair Committee is headed by Dr. Louis A. Legory, associate professor of chemistry.

Van Zandt To Address Ag Engineers Today

The Honorable James E. Van Zandt, representative from the 20th district of Pennsylvania to the Congress, will give the principal address at the meeting of the Pennsylvania Section of the American Society of Agricultural Engineers today.

Congressman Van Zandt will speak on "Peacetime Uses of Atomic Energy" at 3:15 p.m. in the general session in Schwab Auditorium. The public is invited to hear this address. Radio Station WMAJ will carry the talk.

The program of the Society includes a ceremony to honor John E. Nicholas, professor of agricultural engineering, who will retire July 1 after 29 years of service to the University.

Enrollment Statistics Show 35 States Are Represented

Current enrollment statistics at the University show that students represent 35 of the 48 states, 34 foreign countries, the Canal Zone, Hawaii, Puerto Rico, and the District of Columbia.

All of the State's 67 counties are represented, with Allegheny (1143) Centre (918) and Philadelphia (711) showing the largest enrollments. New Jersey (355) and New York (339) have the largest enrollments of out-of-state students.

Distinguished Alumni Named For June Awards

Recipients of the six Distinguished Alumni Awards, to be presented on June 14 at the annual alumni reunion, have been announced. They are:

Michael Baker, Jr., '36, president of the consulting engineering firm bearing his name.

Luther C. Campbell '15 who was vice president of Eastern Gas and Fuel Associates prior to his retirement last November.

Harold C. Erskine '20, vice president and general manager of Aluminum Company of America's smelting and fabricating operations.

Charles H. Fetter '17, president and founder of American Time Products, Inc.

John C. White '11, who was vice president, purchases, stores and insurance for the Pennsylvania Railroad prior to his retirement in 1956.

Marlin G. Geiger '21, executive vice president, W. R. Grace and Co.

Aberg Comedy Scheduled In Little Theatre Sunday

Gilbert Aberg, writer-director of the Motion Picture Studio, is author of a three-act comedy, "Where There's A Will," to be presented by the Experimental Theatre on Sunday, Apr. 27, at 2 p.m. in Little Theatre, Old Main.

The full-length farce-comedy, developed in playwriting classes conducted by Warren S. Smith, associate professor of theatre arts, will be given script-in-hand by a cast of students.

Israel Subject Of Lecture At Hillel

Dr. Raphael Patai, director of research of the Theodor Herzl Institute in New York, will present a lecture in the Hillel Foundation on Wednesday, April 30, at 8 p.m. He will speak on "Israel Between East and West: Problems of Human Relations." This is the second in a series of lectures on Israel currently being given at Hillel Foundation.

Arts Festival Opens With Exhibit, Play

The annual Spring Arts Festival, which gets underway today with a play and an exhibit, will continue until May 17, with events scheduled nearly every day.

Players' production of "Tonight at 8:30," by Noel Coward, begins at Center Stage at 8 p.m. this evening and will run every Friday and Saturday until May 17.

The Department of Home Arts has installed an exhibit titled "Backgrounds for Living" in the Hetzel Union Building gallery which will run until May 2.

Other events for the coming week include:

A concert by the Penn State Glee Club at 3 p.m. in Schwab Auditorium on Sunday, April 27.

Lecture by Dr. Anton Ehrenzweig, British author and lecturer, on Monday, April 28 at 8 p.m. in the HUB assembly room on the subject, "Freedom and Discipline in Modern Art."

Concert by the University Symphony Orchestra, Wednesday, April 30, at 8 p.m. in Schwab Auditorium.

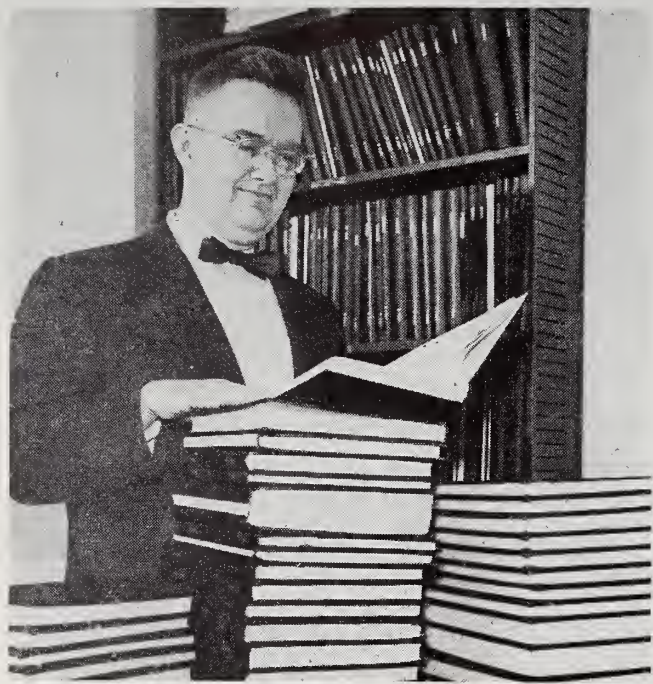
Dr. Perry Miller To Give Next Lecture In Religion

Dr. Perry Miller, professor of American literature at Harvard University, will present the final lecture in the current series of Lectures in Religion on Thursday, May 1, at 8:30 p.m. in Room 121, Sparks Building.

He will speak on "Puritanism and American Literature," in a lecture co-sponsored by the Liberal Arts Lecture Series.

Accounting Changes Office Hours Soon

Effective May 1, the various divisions of the General Accounting office will observe the office hours of 7:45 a.m. to 4:45 p.m. The bursar's office will remain open during the lunch hour, as in the past.



Promise For Future

Theses in Education Give Cause For More Optimism

Dr. Hugh M. Davison, professor of education research, has supervised hundreds of theses in the ten years he has been here.

DR. HUGH M. DAVISON, professor of education research, has literally hundreds of reasons to be more optimistic about the future of education in Pennsylvania than do, apparently, many other people.

The reasons are in the form of master's degree theses and doctoral dissertations which he has personally supervised in his ten years on campus and many others on which he has advised.

"The striking differences between theses in the past couple of decades and those of earlier periods," Dr. Davison says, "are that they are now more objective and that many more are analysis as opposed to status studies. In other words, our graduate candidates are analyzing problems in education administration and in teaching methods and in many cases suggesting solutions."

To Dr. Davison this is encouraging because a great number of his "advisees" are practicing teachers and school administrators who are demonstrating that they recognize that problems do exist and are trying to do something about them. It is also heartening because the school systems in the future will have increasing numbers of trained people trying to upgrade the school systems, rather than static job holders who have neither the training nor the desire to do the job.

"Pennsylvania," Dr. Davison hastens to add, "was one of the first to recognize the need for education research, and compared to most other states we are far ahead in this type of study."

"A number of our studies are being carried out by graduate students in other states. For example, one man, who is supervisor of teaching in two junior high schools in Dade County, Florida, has completed a study of arithmetic methods in his two schools. A researcher in Kansas City, Mo., has the entire school system for her study of kindergarten instruction."

Each year, 40 to 50 theses and dissertations in education are completed with Dr. Davison's direct help, and he has an indirect hand in the graduate work of 1500 summer school students and more than 250 regular students. He aids in the selection of the topics for study and setting up the methods for research, and personally reads and criticizes the theses. His own knowledge of what is being done here and elsewhere is valuable to avoid duplication as well as to give the student some notion of what he might read before he begins his own work.

"Especially encouraging to us," Dr. Davison points out, "is that many of these theses actually lead to concrete action in legislation, in educational policy fields, and in school board programs. For example, a study on school transportation systems led to an improved State-wide program. A supervising principal studied the problems of school district mergers. His study has been reprinted twice and had an effect on school district reorganization legislation."

Measurement methods are vitally important in many studies, and the words "reliability" and "validity" creep into nearly every graduate thesis attempted. Each student, after studying the literature and coming up with a topic, must decide whether the object of his study can be tested. Not all necessarily involve statistics, although many do, but they imply a logical review. Consequently, Dr. Davison feels that these studies can be used with confidence, rather than being left to gather dust on bookshelves.

"If you look back over theses for many years," he says, "you can see the problems which were current in education at the time. Naturally, everyone selects topics which have some application immediately. Curiously, you can see how some of these problems recur, not infrequently."

Unlike many other areas, education presently relies very little on grants to carry on research, so unsponsored graduate research studies are extremely helpful. Fortunately, materials in Harrisburg and Washington are readily accessible, involving the student's time and travel expense but little other money. It is also fortunate that, wherever necessary, school systems and individual schools are willing to help.

"They realize" Dr. Davison says, "that eventually some good may come out of the study for them."

Quite frankly Dr. Davison points out that some of the studies lead to jobs for the student. This, he feels, is not unusual, in view of the fact that the student is probably the only qualified person to handle the job after making his study.

"This is also an encouraging sign for education" he adds, "because it shows that school systems are willing to hire trained people to do the job."

There is no hit-or-miss selection of a graduate student's program in education, Dr. Davison points out. A battery of tests is given each student to develop a profile on him which is then turned over to the student's advisor for suggestions on courses to take. In his work with the Graduate School, Dr. Davison also assists with those minoring in education by reviewing their test profile for them.

"Some students, formerly at other institutions," Dr. Davison says, "tell us that they came to Penn State because their supervision at the other college was too impersonal. We don't hand-feed them here, but we do try to keep them on the right track."

The right track will apparently mean better schools and students in the future, if research in education has anything to do with it, and Dr. Davison in particular.

Items of Interest

Chester Linsky, associate professor of industrial engineering, is author of an article on "Professional Education for Automation Engineers," which appears in the April issue of *The Tool Engineer*.

★ ★ ★

Merrill Wood, associate professor of zoology, was recently elected vice-president of the Eastern Bird Banding Association, which is made up of ornithologists and bird banders from the Middle Atlantic states.

★ ★ ★

Dr. Joseph Marin, head of the department of engineering mechanics, has prepared two chapters on "Theories of Failure" and "Working Stresses" for a Metals Engineering handbook to be published under the sponsorship of the American Society of Mechanical Engineers.

★ ★ ★

Dr. Andrew A. Benson, associate professor of agricultural and biological chemistry, presented a seminar at the Argonne National Laboratory, Chicago, Ill., recently and also gave a paper as part of a Symposium on Phospholipides at the American Chemical Society meetings in San Francisco, Calif.

★ ★ ★

Dr. Harold E. Dickson, professor of history of art and architecture, is the author of an article titled, "The Baker Mansion, Altoona, Pa.," which appears in the current issue of the *Journal of the Society of Architectural History*. The article describes "the most impressive remaining Greek revival building in Central Pennsylvania" which is now the home of the Blair County Historical Society.

★ ★ ★

Viktor Lowenfeld, head of the department of art education, spoke on the handicapped child at the recent International Council for Exceptional Children convention in Kansas City, Mo.

★ ★ ★

Joseph Intorre, associate in charge of driver training in the Institute of Public Safety, spoke recently at the West Virginia Driver and Safety Education Association meeting and also at the annual meeting of the Driver and Safety Educators Association of New York state.

★ ★ ★

Dr. Phyllis R. Griess, associate professor of geography, presented a paper on "Past, Present, and Future Foci of Bituminous Coal Strip Mining in Pennsylvania" at the general session of the Pennsylvania Academy of Science during the 34th annual meeting in Easton, recently.

As a member of the executive council, Nora E. Wittman, assistant professor of German, attended the meetings of the Pennsylvania State Modern Language Association at Seton Hill College. She will attend spring meeting of the Central Pennsylvania Chapter of the American Association of Teachers of German at Albright College tomorrow, as secretary-treasurer of the Association.

★ ★ ★

Dr. Neil A. McNall, associate professor of history, spoke on "John Gregg—Canandaigua" at the combined meeting of Kiwanians, Rotarians, and members of the Ontario County (New York) Historical Society recently on the occasion of the 100th anniversary of John Gregg, early New York land agent and speculator.

★ ★ ★

Benjamin C. Sparks, instructor in the engineering mechanics, has received the Young Engineering Teacher Paper Contest award of the Allegheny section of the American Society for Engineering Education. His paper dealt with organized orientation programs for young engineering teachers.

★ ★ ★

Dr. L. W. Hu, associate professor of engineering mechanics, is author of an article on "Modified Tresca's Yield Condition and Associated Flow Rules for Anisotropic Materials and Applications" appearing in the March issue of the *Journal of the Franklin Institute*.

★ ★ ★

Dr. George F. Deasy, professor of geography, presented a paper on "Some Geographic Aspects of Pennsylvania's Bituminous Coal Strip Pits" at the general session of the 34th annual meeting of the Pennsylvania Academy of Science.

★ ★ ★

An article by Dr. George A. Theodorson, assistant professor of sociology, titled "Acceptance of Industrialization and Its Attendant Consequences for the Social Patterns of Non-Western Societies," originally published in the *American Sociological Review*, is being translated into Arabic for a new Arabic bulletin of technical papers in the social sciences.

★ ★ ★

Dr. Harold K. Schilling, dean of the Graduate School, has been serving this week as visiting lecturer at Central College, Pella, Ia., under the auspices of the American Association of Physics Teachers and the American Institute of Physics.

★ ★ ★

Benjamin W. Niebel, head of the department of industrial engineering, spoke on "Relationship Between Overall Flow Pattern and Individual Work Areas" at the eighth semi-annual clinic and technical workshop on two and three dimensional planning in Pittsburgh recently.

Dr. John Hall, associate professor of psychology, presented a paper concerned with the learning and forgetting of meaningful material at the annual meeting of the Eastern Psychological Association in Philadelphia recently. Dr. Alec Slivinske, assistant professor of psychology, was a member of the committee on local arrangements for the meetings.

★ ★ ★

President Eric A. Walker will be the luncheon speaker of the one-day Town Meeting on Education on Saturday, April 26 to be held in Philadelphia under the auspices of the Citizens Committee on Public Education. He will speak on "The Time is Now."

★ ★ ★

Dr. Louis Dupree, associate professor of anthropology, is the author of an article on "The Non-Ethnic Groups of Libya," which appeared in the winter issue of "The Middle East Review."

★ ★ ★

Edward J. J. Tracey, Jr., chemist for the Ordnance Research Laboratory, has been issued a patent related to a means of releasing buoyant objects underwater.

★ ★ ★

As a sponsor of the 1958 Northeast Conference on the Teaching of Foreign Languages last weekend in New York, the department of romance languages was represented by Nicholas M. Bren- tin and Dr. Simon Belasco, associate professors of romance languages. Bren- tin is a member of the advisory council of the Conference, and Belasco a member of the committee on tests.

★ ★ ★

Dr. H. Tracy Sturcken, assistant professor of romance languages, presented a paper, "Definitions and Formulae in the Medieval 'Fuero'," at the 11 University of Kentucky Foreign Language Conference this week.

Construction Progress Noted

Construction of the new engineering building and the petroleum refining laboratory has begun in a project which will cost nearly \$4 million. The razing of the old laboratory, once the site of the University's power plant, will begin soon. Preliminary work in clearing the site of the new laboratory has started south of the Forestry Building.

Bids for construction of the new Home Economics building and a series of four agricultural structures have been received and work is expected to begin soon. The Home Economics building, to cost about \$1,396,000, will embrace the present Home Economics South.

A meats laboratory, swine facility, and turkey breeder and brooder houses will be started soon.

At the Food Stores Building, steel work has been completed and at the men's residence halls on East Park Ave. steel work has been started on the dining hall.

Calendar

Friday, April 25

Mathematics Colloquium, 4:10 p.m., Room 305, Sparks Building. Dr. Theodore Skolem, University of Oslo, on "Diophantine Approximation."

Players' production of "Tonight at 8:30," by Noel Coward, 8 p.m., Center Stage.

Fluid Mechanics Seminar, 4:10 p.m., Room 1, Sackett Building. Dr. Hikmet Binark, professor of mechanical engineering, Technical University, Istanbul, Turkey, on "Induced Air Flows in Sprays."

Mineral Industries Colloquium, 4:10 p.m., Mineral Sciences auditorium. Dr. Philip H. Abelson, director, Geophysics Laboratory, Carnegie Institute, Washington, D.C., on "Geochemistry of Organic Substances."

Meeting of faculty of College of Agriculture, 4:10 p.m., Room 112, Buckhout Lab.

Saturday, April 26

Varsity baseball, versus Syracuse, double header, 1:30 p.m., Beaver Field.

Varsity golf, versus Syracuse, 1:00 p.m., golf course.

Varsity lacrosse, versus Rutgers, 2:30 p.m., Beaver Field.

Players production of "Tonight at 8:30" by Noel Coward, 8 p.m., Center Stage.

Sunday, April 27

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Potestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Chapel service, 10:55 a.m., Schwab Auditorium. Dr. G. Bromley Oxnam, bishop, The Methodist Church, Washington, D. C.

Experimental Theatre production of comedy, "Where There's A Will," by Gilbert Aberg, 2 p.m., Little Theatre, Old Main.

Concert by Penn State Glee Club, 3 p.m., Schwab Auditorium.

WDFM "Third Program", 9 p.m., featuring recording of Rossini's opera, "The Barber of Seville" with Maria Callas.

Monday, April 28

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Dr. Theodore Spicer, professor of fuel technology, on "The Fuel Industry in Europe."

SIAM meeting, 7:30 p.m., Room 209, Willard Building. Emery Richardson, Haller, Raymond, and Brown, on "An Example of Discrete Stochastic Process."

Lecture by Anton Ehrenzweig, 8 p.m., assembly room of the Hetzel Union Building, on "Freedom and Discipline in Modern Art."

Engineering mechanics seminar, 4:10 p.m., Room 203, Engineering "A." Continuation of lecture by Dr. Henri Marcus on "Stress and Strain in Flexible Plates."

Tuesday, April 29

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel, with Dr. H. L. Hartman, head of the department of mining engineering, in charge.

Physics Colloquium, 4:10 p.m., Room 117, Osmond Laboratory. Dr. Sergio DeBenedetti, Carnegie Institute of Technology, on "Behavior of Slow Positrons in Solids."

Plant Science Club meeting, 7:30 p.m., Room 111, Tyson Building. Dr. L. H. Sommer, associate professor of chemistry, on "Some Recent Developments in Polymer Chemistry."

Economics Faculty Seminar, 12 noon, dining room "C," Hetzel Union Building. Ada Harrison, Brookings Institute, on "Fashions and the Structure of the Dress Industry."

Philosophy Colloquium, 4:10 p.m., Room 124, Sparks Building. John H. Brown, instructor in philosophy, on "Theories of Judgment."

Wednesday, April 30

Concert by University Symphony Orchestra, 8 p.m., Schwab Auditorium.

Hillel Foundation Lecture series, 8 p.m., by Dr. Raphael Patai, director of research, Theodor Herzl Institute, on "Israel Between East and West: Problems of Human Relations."

Metallurgy Seminar, 4:10 p.m., Room 317, Willard Building. Dr. W. W. Mullins, Westinghouse Research Laboratories, on "Thermal Grooving at Grain Boundaries."

Senate To Meet

The University Senate will meet Thursday, May 1, at 3:10 p.m. in the Hetzel Union Building.

Thursday, May 1

Senate Meeting, 3:10 p.m., assembly room, Hetzel Union Building.

Chemistry Colloquium, 1:10 p.m., Room 119, Osmond Laboratory. Dr. H. A. Liebhafsky, General Electric Co., on "Research at High Pressures and High Temperatures."

Episcopal Evensong, 4:30 p.m., Helen Eakin Eisenhower Chapel. Rev. Donald Cutler, pastor of Episcopal students, liturgist.

Lecture in Religion, 8:30 p.m., Room 121, Sparks Building, by Perry Miller, professor of American literature, Harvard University, on "Puritanism and American Literature," co-sponsored by the Liberal Arts Lecture Series.

Friday, May 2

Players production of "Tonight at 8:30" by Noel Coward, 8 p.m., Center Stage.

Illustrated lecture on French painting in the National Gallery, by Dr. Grose Evans, art historian and associate curator in charge of educational work, National Gallery of Art, Washington, D. C., 8 p.m., Hetzel Union Building.

Varsity baseball, versus Gettysburg, 3:30 p.m., Beaver Field.

Reading Festival Concludes

The 10th Annual Interpretative Reading Festival, which began yesterday, will conclude today with Prose readings at 9:30 a.m. in the Mineral Sciences Auditorium.

The Festival, attracting students from 11 Pennsylvania colleges and the Penn State centers, was planned by a committee headed by Harriett D. Nesbitt, assistant professor of public speaking, and Dr. William W. Hamilton, associate professor of speech.

Sessions yesterday included poetry and an evening reading hour.

Chapel Choir's Presentation Of Ceiga Music Recorded

The Chapel Choir's presentation of the original Easter Service music of George E. Ceiga, University organist, has been recorded and subscription recordings are obtainable. Subscription order blanks are available at the Hetzel Union Building desk and at the Helen Eakin Eisenhower Chapel.

The music was presented at the regular Chapel Service on Mar. 30 and again on Apr. 13.

Encampment Committee Seeks Ideas, Questions

Ideas and questions suitable for discussion at Student Encampment in the fall are being solicited from faculty members by members of the Encampment committee.

Encampment, to be held at Mont Alto Sept. 4-6, is a meeting of student leaders, faculty and townspeople for discussion of problems relative to all three groups. In past years many recommendations have come from Encampment which subsequently led to changes in procedures, operations, and policies on campus.

Such areas as academic honesty, student recreational activities, communications, and other topics will be discussed this year. The faculty is being asked also to provide any materials it may have which could be useful in the discussions.

Specific questions for discussion, or areas, should be sent to Eugene Curry, 321 E. Fairmount Ave., State College, or to Dr. R. G. Bernreuter, special assistant to the president, 114, Old Main.

Campus Trends . . .

A plan to put Michigan State University on a year-round footing, permitting students who wish to graduate in three years, has been adopted by the university's senate. Effective in 1959, students will be permitted, if the Board of Governors agrees, to take a full quarter load of 16 hours in an expanded summer session. Summer school is to include a 10-week term to run concurrently with two five-week sessions. Also, registration and examination periods will be condensed.

★ ★ ★

The University of Minnesota, planning for 42,000 students by 1970, expects to expand across the Mississippi River from its present campus, with a two-tiered bridge becoming the "Mall" of the campus. The bridge would provide six-lane traffic on the lower level and pedestrian traffic on the enclosed upper level.

★ ★ ★

A district court in Texas has upheld the petition of two women for admittance to Texas A. & M. College, traditionally for men only. The two women, wives of students at the college, had been commuting to another college 40 miles away. Verdict will be appealed.

Report from the Registrar

WITHDRAWALS (Campus)

- | | |
|----|--|
| 8 | Anglestein, Richard W., Journ, March 27 |
| Gr | Bullock, Rodway Mervyn, Chem, March 29 |
| 2 | Carroll, Richard, Coun, April 2 |
| 2 | Cooper, Jan A., Coun, March 27 |
| 3 | Hanchey, Donald Lee, Coun, March 30 |
| 7 | McKee, David B., I. E., March 28 |
| 4 | Miller, Ronald L., B. A., March 31 |
| 8 | Naugle, James Fred, M. E., April 2 |
| 5 | Patrick, John Jr., Chem, March 28 |
| 2 | Quayle, Audrey M., A. L., April 1 |
| 2 | Quist, Gunnar, Ed, March 27 |
| 2 | Rapp, Geraldine Garvin, Psy, March 24 |
| 1 | Shimomura, Masanobu, Phys, April 2 |
| 7 | Thomas Rex, D. Sc., March 25 |
| 3 | Van Rennselaer, Stephen, For, March 28 (Mont Alto) |
| 5 | Vreeland, David Charles, A. L., March 27 |
| 2 | Zettle, Edward C., F. T., March 24 |
| 2 | Zuilkoski, Stephen K., Coun, March 28 |
| 6 | Besket, Andrew, BA, Apr 11 |
| 6 | Besket, Joseph, BA, Apr 11 |
| 2 | Chase, Gary Ross, Coun, Apr 11 |
| Gr | Collins, Charles Kimble, GEOG, Apr 16 |
| 4 | Horlacher, Frederick H., ARCH, Apr 10 |
| Gr | Hough, Van Ness Dearborn, GEOL, Apr 15 |
| 2 | Kresge, David Edwin, Coun, Apr 11 |
| Gr | Levitz, Hilbert, MATH, Apr 14 |
| 2 | Lieberman, Marilyn A., Coun, Apr 11 |
| 5 | Lintz, Rodman Miles, AL, Apr 9 |
| 4 | McClelland, David N., ME, Apr 14 |
| 2 | McGwire, Marilyn Phares, AL, Apr 11 |
| 6 | Naugle, Allan Eugene, ME, Apr 11 |
| 5 | Oleksa, Ronald John, EE, Apr 10 |
| 2 | O'Lenick, John Alan, Phys, Apr 14 |
| 6 | Ramsay, Hugh W., BA, Apr 16 |
| 2 | Seldin, Sandy B., AL, Apr 15 |
| 5 | Snyder, Faber Laird, IE, Apr 11 |
| 2 | Stone, Gerald Joseph, BA, Apr 10 |
| 6 | Torbert, Dale Allen, ARO E, Apr 11 |

Change of Names

Jacox, Frances W. from Wassel, Frances A. Radakovich, Nancy Ann from Fluck, Nancy Ann

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Dr. Sidney Painter To Give Last Liberal Arts Lecture

Dr. Sidney Painter, chairman of the department of history, Johns Hopkins University, will present the last lecture in the current Liberal Arts Lecture Series on Thursday, May 9, at 8 p.m. in Room 121, Sparks Building.

He will speak on "French Chivalry."

The author of many books, Dr. Painter numbers among his works "History of the English Feudal Barony," "Medieval Society," "A History of the Middle Ages," and a work of the same title as his talk. A graduate of Yale University, he has taught at both Yale and Johns Hopkins. He has been head of the history department at Johns Hopkins since 1945. From 1950 to 1955, he served on the Committee on International Exchange of Persons.

Choir To Present Haydn Work, Tuesday, May 15

The annual spring concert of the Chapel Choir, under the direction of Mrs. Willa Taylor, will be held on Tuesday, May 15, at 8:30 p.m. in Schwab Auditorium.

The Choir will give Haydn's "Missa Sanctae Caeciliae," which was given previously in 1953.

Herbert Beattie, former teacher of voice in the music department, will return as bass soloist for the performance. He now teaches at Buffalo University and scored an unusual success with the City Center Opera last fall.

Mrs. Taylor will give a commentary on the mass at 8 p.m. on Wednesday, May 7 in the lounge of the Helen Eakin Eisenhower Chapel as part of the Religion and the Arts program of the Committee on Interreligious Affairs.

Tennis Courts Reserved

Faculty members desiring to make reservations for tennis courts should call Ext. 2106 to determine when courts are available. Calls should be made after 1:00 p.m. Reservations will be for a one-hour period.

Standing Stone Playhouse Acquired For Theatre Arts

The University has acquired the Standing Stone Playhouse, near Neff's Mills, 18 miles from the campus, to further the work of theatre arts.

The decision to operate the theatre follows the receipt of a gift of \$10,000 from Mr. and Mrs. M. C. Mateer, State College, who are interested in the arts and in the development of a permanent summer theatre.

Standing Stone is a reconverted barn which has been used as a summer theatre since 1951.

The 1958 summer program, which will be operated by the department of theatre arts, will be built around a core of six resident professional actors, a professional director, and stage manager. Classroom offerings in the theatre arts will be integrated with the new project and faculty and students will use the theatre as a summer laboratory.

An eight-week season opening June 23 and closing Aug. 16 is planned. Tentatively scheduled for production are "The Glass Menagerie," "The Royal Family of Broadway," "Happy Time," "The Chalk Garden," "Clutterbuck," "The Mouse Trap," and "Major Barbara."

Warren S. Smith, associate professor of theatre arts, will serve as managing director of the Playhouse, and Russell G. Whaley, assistant professor of theatre arts, will design the sets and teach a class in theatre production. Kelly Yeaton, associate professor, will direct two of the plays.

Players To Present Merchant Of Venice

The Penn State Players will present Shakespeare's "The Merchant of Venice," Thursday through Saturday, May 8-10, in the continuing program of the Spring Arts Festival.

The play is directed by Warren S. Smith, associate professor of theatre arts. Performances begin at 8 p.m. each evening.

Photo Exhibit On Theatre Begins In HUB Tomorrow

An exhibit of 150 photographs related to "Contemporary Theatre in the United States" will be on display in the Hetzel Union Building gallery from May 3 to 9.

The exhibit, which is described as a survey in words and pictures of the American theatre today, has been provided by The National Theatre Service Department of the American National Theatre and Academy.

The photographs illustrate children's theatre, educational theatre, Broadway, Off-Broadway, professional and semi-professional resident companies, summer theatres, Shakespeare festivals, symphonic drama, and community theatre.

Recreation Conference To Hear M. K. Goddard

Maurice K. Goddard, State secretary of the Department of Forest and Waters on leave from his post as director of the School of Forestry, will be one of the featured speakers at the 11th Annual Pennsylvania Recreation Conference May 7-9, on campus.

He will speak at a luncheon meeting in the HUB at 12:30, Friday, May 9 on "Pennsylvania Park Developments."

The program also includes a folk dance festival at the HUB on Thursday, May 8, at 8:30 p.m.

WDFM To Present Music Of Wagner

Campus radio station, WDFM, will present an evening of "The Music of Richard Wagner" on its "Third Program" Sunday, May 4, from 7 to 11:30 p.m.

G. William Henninger, professor of music, will lecture on the presentations, which will include excerpts from "The Ring of the Nibelungs," "The Rhinegold," "The Walkure," "Siegfried," and "Twilight of the Gods."



Middle Class In Middle

Squeeze of Secular Inflation To Affect White Collars Most

Dr. Will A. Mason, associate professor of economics, predicts that a new type of inflation, showing continued rises, will have its greatest effect on the middle class, fixed-income group which will suffer an inexorably declining standard of living.

A type of inflation—which the economists call “secular” — is upon us and it will have its greatest effect on the middle class, says Dr. Will A. Mason, associate professor of economics.

In a paper presented at the bi-weekly Economics Seminar luncheon on Mar. 18, Dr. Mason pointed out that this “new inflation” does not follow the former pattern of inflation and depression of prices, but rather is a continuing thing without the traditional business cycle deflations.

“This means that the real-income losses of the relatively fixed-income middle class during inflation will not, in the future, be balanced by gains associated with cyclical or post-war deflation.

“The middle class standard of living is, accordingly, suffering an inexorable long-run relative deterioration.”

Dr. Mason gives 12 causes for this new development, resulting from basic structural changes in the American economy. “The causes, he says, “are found in a series of technological, institutional, psychological, political, and social developments which have combined since the depression of the 'thirties and the war of the 'forties to generate long-run inflationary pressures hitherto unknown.

“Recognition of these inflationary forces implies no claim that the business cycle is passe. We do not know enough about turning points to forecast downturns. But we do know enough about the forces of contraction to moderate its severity — and we will. Cyclical inflations, therefore, will tend to exceed cyclical deflations, pro-

ducing secular inflation which will inevitably shrink the real income of the middle class.”

Therefore, there will be times, Dr. Mason says, when prices will decline but they will not decline in the same proportions as they did in the 'thirties, when college professors found their economic position such that they could make property and stock investments which have stood them in good stead since.

The white collar worker who, in previous periods of lower prices, could make good investments with savings, will no longer enjoy that favorable situation, first because the future will not bring a recurrent collapse of the price level and second because he will be unable to accumulate enough savings to make investments of the kind which will bring substantial and flexible returns.

The dilemma of the middle class, fixed-income group results from in part the fact that other groups — such as organized labor and the owners of industry — are in a position to protect their own interests; the middle class is not, at least in an important degree.

The manufacturer in the basic industries, for example, can now blame his price increases on the demands of labor for higher wages. Labor can continually renegotiate its contracts on the basis of higher living costs. Moreover, both business and labor enjoy more voice in the determination of public policy than does the relatively unorganized middle class.

Prospects for a solution via movement of salaried and pensioned persons

into areas of more flexible incomes (hourly wages and profits) appear to be limited. Technological and institutional developments are actually causing the opposite movement. The middle class is growing in numbers both absolutely and relatively. Shifting about within the general category will bring only temporary relief. For example, some college professors may improve their salary by seeking employment in government or industry, but their incomes remain relatively inflexible.

Real middle-class relief requires reducing the upward flexibility of the price level or increasing that of salaries and pensions. It is doubtful that the middle class will become a sufficiently potent political pressure group to accomplish the former until it has organized economically for the attainment of the latter. Except for the clerical component, the middle class is not likely to resort to, or rely upon, the traditional forms of unionization and collective bargaining as a means of maintaining or improving its share of national production.

Dr. Mason expects professional middle-class organization to manifest itself as professional associations ultimately becoming obliged to concern themselves with the economic interests of their members as well as the ethical and professional standards of the profession. Both the economic interests and the professional standards may be protected by restriction of entry through educational requirements, limits on enrollment, examination, apprenticeship, and certification. The American Medical Association has demon-

strated how successful such a program can be.

Some economists view the rise in prices since World War II as merely the reflection of long-run inflation which they claim (erroneously, Dr. Mason feels) to have been characteristic of our entire history. Others have argued that the recent price phenomenon is just another cyclical inflation, sure to be followed by deflation. Dr. Mason contends, however, that the inflationary period we now have is not like those of previous eras and that it will result in social changes such as previous inflationary periods never saw.

"Can a viable balance of power between the three groups be attained," Dr. Mason asks, "or will the trio of power blocs fight to the finish for economic and political dominance? In the latter event, it is doubtful that our free institutions could survive."

They Say . . .

(Speaking before the first annual meeting of Pennsylvania School Administrators at Hershey, Pa., April 24, President Eric A. Walker commented on, in part, community colleges.)

"Another broad question I think we need to discuss is the role of the community college. It is clear, I believe, that such colleges will be a significant factor in Pennsylvania education in the future. You are all familiar, of course, with the Administration's proposal in the last session of the General Assembly to establish a system of junior colleges in the Commonwealth that would put at least the first two years of a collegiate education within commuting distance of every student. Actually, a start toward some such system has already been made through the 14 Penn State Centers, which are, in effect, community colleges.

"The introduction of this new type of college—new, at any rate, to Pennsylvania—has serious implications for all our programs. To be truly helpful, its role must be clearly defined and its relationship with the high schools on the one side and the universities on the other must be thoughtfully explored."

X-Ray Unit On Campus

The mobile x-ray unit will be on campus Wednesday through Friday, May 7-9 for chest x-rays.

Although primarily intended as a service to graduating seniors who may need x-rays before accepting employment, all faculty, staff, and students have been urged to make use of the facility by Dr. Herbert R. Glenn, University physician.

The unit, which is being brought here through the aid of the Bureau of Tuberculosis Control, Pennsylvania Department of Health, will be in operation from 9 a.m. to 1 p.m. and 2 p.m. to 6 p.m.

Items of Interest

Elmer R. Queer, director of the engineering experiment department, presented the charter and installed the officers of a new chapter of the American Society of Heating and Ventilating Engineers at Calgary, Alberta, Canada, recently.

Dr. Benjamin A. Whisler, head of the department of civil engineering, moderated a panel discussion on "Problems and Progress in Water Pollution Abatement" at the annual Pennsylvania Clean Streams Conference in Harrisburg, recently.

Dr. Howard W. Taft, Jr., professor of chemistry, addressed the General Chemistry Seminar at Cornell University last week on "Linear Inductive Energy Relationships and Some Applications."

Dr. Benjamin A. Whisler, head of the department of civil engineering, spoke yesterday on "The Profession of Environmental Health Control" at the 7th Southern Municipal and Industrial Waste Conference at Duke University.

Dr. Stanley Weintraub, instructor in English literature and editor of "The Shaw Bulletin," has contributed an introduction and notes to a work of George Bernard Shaw, "Unfinished Novel," which is being published by Dodd, Mead and Co., New York, and Constable and Co., London, in limited editions.

A paper titled, "Temperature Coefficient at Low Temperatures in a Heterogeneous Light Water Moderated Reactor," prepared by Dr. Robert G. Cochran, Alan M. Jacobs, and Forrest J. Remick, of the Research Reactor staff, has been accepted for presentation at the American Nuclear Society meetings in Los Angeles, in June.

Paul Ebaugh, assistant dean for research in the College of Engineering and Architecture, H. I. Tarpley, professor of electrical engineering, and Dr. G. K. Gillan, professor of civil engineering, served as discussion leaders for seminars of the annual meeting of the Allegheny section of the American Society for Engineering Education at West Virginia University recently. The meeting used the theme, "The Sponsorship and Tools of Research."

Dr. Howard B. Palmer, associate professor of fuel technology, presented a review of work currently in progress on gaseous combustion before the annual meeting of Project Squid, held at the Bureau of Mines, Pittsburgh, recently.

William H. Powers, director of arts and science extension, participated in a conference called by the National Science Foundation at the University of Texas last week. He reported on the Academic Year Institute program for the current year and also participated in planning sessions to study the direction and procedures of future institutes to be held under Foundation sponsorship.

Dr. Hans Neuberger, head of the department of meteorology, has been appointed to the Advisory Committee on Meteorological Education of the American Meteorological Society.

Dr. Louis Dupree, associate professor of anthropology, is the author of a review article, "Man's Search for Himself," which appears in the current issue of "The Nation." The article reviews new books in the fields of travel, archaeology, and anthropology.

George L. Thuering, professor of industrial engineering, has been elected to the council of Alpha Pi Mu, industrial engineering honor society.

Drs. Philip S. Klein, professor, Neal A. McNall, associate professor, and H. Trevor Colbourn, assistant professor, of the department of history, participated in the 51st meeting of the Mississippi Valley Historical Association in Minneapolis recently.

Dr. John C. Griffiths, head of the department of mineralogy, served on a six-man panel which discussed "The Place of Petrology in the Undergraduate Geology Curriculum" before the annual meeting of the American Geology Teachers Association recently. He also addressed faculty and graduate students in geology at Harvard University on "Some Problems in Sampling Sedimentary Rocks."

Noted Archaeologist To Lecture Sunday

Dr. Nelson Glueck, president of the Hebrew Union College, Jewish Institute of Religion in Cincinnati and New York, will give a public lecture on "In the Footsteps of Abraham: Archaeology in the Negev" at Hillel Foundation on Sunday, May 4 at 8 p.m.

This is the third in a series of lectures at Hillel commemorating the tenth anniversary of the State of Israel.

Dr. Glueck has a distinguished career as an archaeologist and has been a pioneer in the archaeology of the Negev of Israel. He is also professor of Biblical Archaeology at the institution he heads.

Dr. Frederick R. Matson, assistant dean for research in the College of the Liberal Arts, will introduce the speaker.

Calendar

Friday, May 2

Players production of "Tonight at 8:30" by Noel Coward, 8 p.m., Center Stage.

Illustrated lecture on French painting in the National Gallery, by Dr. Grose Evans, art historian and associate curator in charge of educational work, National Gallery of Art, Washington, D. C., 8 p.m., Hetzel Union Building.

Varsity baseball, versus Gettysburg, 3:30 p.m., Beaver Field.

Fluid Mechanics Seminar, 4:10 p.m., Room 1, Sackett Building. Dr. Irving Michelson, head, department of aeronautical engineering, on "Jet Entrainment and Thrust Augmentation."

Saturday, May 3

Cosmopolitan Club cabin party at Forest Lodge, with symposium, election of officers. Cars leave from back of Old Main at 1:30 p.m.

Varsity baseball, versus West Virginia, 2:30 p.m., Beaver Field.

Varsity tennis, versus Lehigh, 2:30 p.m., varsity courts.

Arts Festival recital by Toshiya Eto, violinist, 8 p.m., Hetzel Union Building assembly room.

Players production of "Tonight at 8:30", 8 p.m., Center Stage.

Sunday, May 4

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Liston Pope, dean, The Divinity School, Yale University.

Hillel Foundation lecture, 8 p.m., by Dr. Nelson Glueck, president, Hebrew Union College, on "In the Footsteps of Abraham: Archeology in the Negev."

WDFM "Third Program", 7 to 11:30 p.m., on "The Music of Richard Wagner" with G. William Henninger, professor of music, as commentator.

Lecture by members of Alpha Nu, honorary Astronomy Society, on "Observations of a Space Traveler," illustrated, 7:30 p.m., Room 111, Boucke Building. Public invited.

Monday, May 5

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Philip S. Klein, professor of American history, on "James Buchanan."

Engineering Mechanics Seminar, 4:10 p.m., Room 203, Engineering "A". Dr. Henri Marcus in continuation of lecture on "Stress and Strain in Flexible Plates."

Physics Colloquium, 4:10 p.m., Room 117, Osmond Lab. Dr. Louis D. Roberts, Oak Ridge National Laboratory, on "Nuclear Orientation Experiments with Several Alpha Particle Emitting Nuclei."

Tuesday, May 6

Test Air Raid alert, between 9 a.m. and 11 a.m.

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Preston N. Williams, assistant University chaplain, in charge.

Scholarship Actions

The Pennsylvania Bankers Association has given added impetus to the Leffler Memorial Scholarship Fund, established in memory of the late Dr. George L. Leffler, by offering to match up to a maximum of \$500 all money contributed by others toward the fund.

* * *

M. C. Mateer, State College restaurant and hotel operator, has established a scholarship valued at \$100 to assist a senior whose major interest is in the field of foods. The award will be made annually for an indefinite period.

* * *

The class of 1908 has established two scholarships, worth \$400 each, which will be available to freshmen, with descendants of the Class being given priority. The scholarship fund was established on the occasion of the 50th anniversary of the Class.

Wednesday, May 7

AYI Colloquium, 3:10 p.m. Tours of cryogenic laboratory and the Garfield Thomas Water Tunnel.

Commentary on Haydn's St. Caeciliae Mass by Mrs. Willa Taylor, director of the Chapel Choir, 8 p.m., Helen Eakin Eisenhower Chapel.

Forestry Convocation, 11 a.m., Room 121, Sparks Building. R. I. Ashman, former head, department of forestry, University of Maine.

Graduate Mining Seminar, 4:15 p.m., Room 24, Mineral Industries. Mehmet Guney, graduate assistant in mining engineering, on "Energy Losses in Air Splitting."

Metallurgy Seminar, 4:10 p.m., Room 317, Willard Building. Dr. Gert Ehrlich, General Electric Research Laboratory, on "Molecular Processes at the Gas-Metal Interface."

Varsity track, versus Colgate, 1:00 p.m., Beaver Field.

Varsity lacrosse, versus Cornell, 3:30 p.m., Beaver Field.

Thursday, May 8

Players production of "The Merchant of Venice," 8 p.m., Schwab Auditorium.

Faculty meeting, College of Engineering and Architecture, 3:10 p.m., Room 110, Electrical Engineering.

Liberal Arts Lecture, 8 p.m., Room 121, Sparks Building. Dr. Sidney Painter, chairman, department of history, Johns Hopkins University, on "French Chivalry."

Faculty meeting, College of the Liberal Arts, 4:10 p.m., Room 121, Sparks Building.

Roman Catholic Mass, 4:30 p.m., Helen Eakin Eisenhower Chapel. Father Gerard Ream in charge.

Illustrated lecture by Carl Koch, noted architect-designer-planner, 7:30 p.m., Hetzel Union Building assembly room, sponsored by department of architecture.

Friday, May 9

Players production of "The Merchant of Venice," 8 p.m., Schwab Auditorium.

Players production of "Tonight at 8:30", 8 p.m., Center Stage.

Mineral Industries Colloquium, 4:10 p.m., Mineral Sciences Auditorium. Dr. M. G. Rutten, professor of geology, visiting at University of Michigan, on "Quaternary Geology in Holland."

Chapel Choir's Presentation Of Ceiga Music Recorded

The Chapel Choir's presentation of the original Easter Service music of George E. Ceiga, University organist, has been recorded and subscription recordings are obtainable. Subscription order blanks are available at the Hetzel Union Building desk and at the Helen Eakin Eisenhower Chapel.

Air Raid Test

Scheduled May 6

A Civil Defense participation drill to provide practice in self-protection measures during air raids will be held on Tuesday, May 6 between 9 a.m. and 11 a.m.

The air raid drill is being conducted simultaneously in three states—Pennsylvania, New Jersey, and New York and will, of course, affect the University as well as the general public.

Standard air raid warning signals will be blown on the steam whistle atop the Power Plant. These signals include an alert, a take cover, and a second alert which signifies the end of the drill.

The alert signal is given as a steady blast of 3 to 5 minutes. On this signal, the public is expected to listen for further signals but take no action. The take-cover signal to follow will be a wailing tone or short blasts for three minutes. On this signal, the public is expected to take shelter immediately and traffic to halt until the second alert signal is given, when normal operations can be resumed.

Campus Trends . . .

A report of the U.S. Office of Education on the careers of 13,700 students in college in 1950-54 showed that more than one out of four quit college before the beginning of the second year. Of these drop-outs, one-fifth had been in the top 20 per cent of their high school graduating classes. The report also said that less than one-third of the high school graduates in 1950 became full-time college students, and only half of those who were in the upper half of their classes went to college.

★ ★ ★

Rutgers University is anticipating a growth from 3,000 students to 6,000 by 1965 at its New Brunswick campus, from 1,600 to 3,000 at Newark, and from 400 to 1,000 at Camden. but President Louis Webster Jones says the increase will fall short of New Jersey's immediate needs. Coed enrollment at Douglass College is expected to rise from the present 1,300 to 3,000. Dr. Jones advocated a system of junior colleges to supplement university facilities.

★ ★ ★

The Navy Department has announced that it has changed its system of assigning quotas for Regular NROTC candidates to the various colleges now carrying the program. Quotas will henceforth be assigned on the basis of tuition fees and according to the number of graduates at each institution in the program who have elected to pursue careers in the Navy. (Penn State's quota remains unchanged under the new procedures—thirty-seven.)

★ ★ ★

According to College and University Bulletin, published by the Association for Higher Education, a total of 150,000 to 200,000 college teachers will be needed by 1970 over those now available, if the present proportion of college-age students who attend college remains constant and if the faculty-student ratio also remains constant.

Documents Available On European Community

Documents and publications of the European Coal and Steel Community will be deposited in Pattee Library and in the Mineral Industries Library.

The Community, established in 1952 as an outcome of the Schuman Plan, involves the countries of Luxembourg, France, Italy, Belgium, The Netherlands, and the Federal Republic of Germany in an attempt to create a practical form of solidarity by placing coal and steel production under a joint high authority.

Typical publications of the Community include: detailed statistics on coal and steel information on the European Common Market; plans for an experimental program of workers' housing; and decisions of the Community's Court of Justice.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Armed Forces Day Parade Thursday

The annual Armed Forces Day parade, in which certain R.O.T.C. students are required to participate, will be held at 7 p.m., Thursday, May 15, moving west on College Ave. from Shortlidge Rd. to Burrowes Rd.

Exhibits prepared by R.O.T.C. units, Ordnance Research Laboratory, the Air National Guard, and various industries will be displayed May 13 to 15 in the Hetzel Union Building as part of Armed Forces Week celebration.

Among the materials to be displayed by the department of military science and tactics will be three machine guns, an automatic rifle, a 3.5 rocket launcher, a "walkie-talkie" and a terrain board illustrating a tactical problem and an approved solution.

Armed Forces Week is celebrated May 12 to 17.

Resignation Announced

Dr. Julian Eisenstein, associate professor of physics, has resigned to accept a position with the Low Temperature Section, National Bureau of Standards, Washington, D. C. He has been on leave since July 1 last.

Other resignations include those of Robert B. Marcus and James D. Shaffer, both research associates with Ordnance Research Laboratory. Ann Marie Bystrom, research associate in mineral sciences, has resigned to undertake a research study in Washington, D. C. before returning to Sweden.

Dr. Ayoub, Wife, To Serve At American U. In Beirut

Dr. G. D. Ayoub, associate professor of mathematics, has been granted a leave of absence, effective July 1, to take up a position as visiting professor of mathematics at the American University of Beirut.

His wife, Christine, who is a lecturer in mathematics, will also serve on the staff at the university.

Chapel Choir Presents Spring Concert Thursday

The 11th Spring Concert of the Chapel Choir and the University Symphony Orchestra will be given on Thursday, May 15, at 8:30 p.m. in Schwab Auditorium.

Haydn's "Missa Sanctae Caeciliae" will be presented, with four guest soloists, including Herbert Beattie, former teacher of voice at Penn State who is now on the music staff at the University of Buffalo.

Other soloists are: Suzanne der Derian, soprano; Margaret Tobias, mezzo-soprano; and Howard Jarratt, tenor.

Beattie scored an unusual success in last winter's season with the New York City Center Opera, singing the role of Osmin, in Mozart's "Seraglio."

Miss Tobias, who will be making her third appearance with the Chapel Choir, will begin her fourth European tour in July, during which she will sing in France, Germany, and at the Brussels World's Fair.

Miss der Derian has performed in the field of oratorio on many occasions, having appeared with the Pittsburgh Symphony in the Bach "B Minor Mass" and with Paul Parnay in Beethoven's "Ninth Symphony," among others.

Mr. Jarratt has done extensive work in concert, opera, and theater and has sung more than 200 performances of Handel's "Messiah." He is currently on the music faculties of New York University and Union Theological Seminary.

Modern Art To Be Discussed In Lecture By Bernard Myers

Bernard S. Myers, professor of art history at City College, New York, will lecture on "Expressionism in Modern Painting: A Generation in Revolt," Saturday, May 10, at 8 p.m. in the Hetzel Union Building Assembly Room.

A noted lecturer and writer on various aspects of modern painting, Myers has published widely in periodicals here and abroad. The lecture is open to the public and is free.

World Crises To Be Discussed Wednesday

Dr. Eddy Asirvatham, professor of political science at Bihar University in India, will present the next lecture in the series sponsored by the University Christian Association on "Perspectives on World Crises," on Wednesday, May 14, at 8 p.m. in Room 121, Sparks Building.

He will speak on "India's Orbit in the Satellite Age," and will examine the role of the "neutral nations" in the contemporary world.

Dr. Asirvatham received much of his education in the United States but received his Ph.D. from Edinburgh University. He taught for eight years at Ohio Wesleyan and Boston University. He has served as president of the Indian Political Science Association, has lectured extensively in the United States, and is the author of many books and articles.

The lecture is being co-sponsored by the American Friends Service Committee and U.C.A.

Lecture On Mime By DeCroux Listed May 19

A lecture-demonstration in the art of mime will be given by Etienne Decroux, considered the world's foremost teacher, on Monday, May 19, at 8 p.m. in Schwab Auditorium.

The program is sponsored by the department of theatre arts and will be open to the public without charge.

Extempore Speaking Contest Begins Monday

The annual John Henry Frizzell Extempore Speaking Contest will begin on Monday, May 12 at 7 p.m. in Room 10, Sparks Building with the finals scheduled for the following Monday, May 19.

The contest, oldest college speaking contest of its kind in the country, honors Professor Frizzell, who retired with emeritus rank in 1946 after 45 years of teaching.

Senate Minutes

Minutes of the Meeting of May 1, 1958

The University Senate met at 3:10 p.m. on Thursday, May 1, 1958 in the Assembly Room of the HUB with President Eric A. Walker presiding. The minutes of the April meeting were approved as printed in the Faculty Bulletin for April 18, 1958. 149 senators signed the roll.

Communications from University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: G. W. Brindley (A. W. Taylor), E. R. Queer (E. R. McLaughlin), B. A. Whisler (C. J. Smith), Ossian MacKenzie (W. M. Hensch), B. B. Lethbridge, Jr. (R. S. Stout), L. S. Roudiez (W. S. Smith), R. C. Maloney (L. D. Skinner), H. W. Popp (C. L. Fergus), H. H. Chisman (M. W. Humphrey), R. E. Swope (H. W. Dunne), and W. C. Fernelius (T. Wartik).

Elected Senators for 1958-1961

COLLEGE OF AGRICULTURE

1958-1959 — J. O. Almquist, A. A. Benson, H. W. Dunne, H. W. Higbee; 1958-1960 — H. H. Chisman, Helen Kinsloe, H. R. McCulloch, C. W. Pierce; 1958-1961 — J. L. Gobble, W. R. Mills, J. C. Pepper, W. H. Wilson.

COLLEGE OF BUSINESS ADMINISTRATION

1958-1959 — L. E. Fouraker, A. H. Reede, W. J. Schrader, R. H. Waters; 1958-1960 — R. M. Colwell, W. S. Decker, C. A. Nelson, C. E. Woodring; 1958-1961 — J. F. Bradley, H. A. Cutler, R. D. Pashek, R. B. Saylor.

COLLEGE OF CHEMISTRY AND PHYSICS

1958-1959 — Joseph Jordan, R. G. Stoner, T. A. Wiggins, E. T. Williams; 1958-1960 — G. H. Ward (Hazleton), W. W. Miller, J. H. Jones, L. H. Sommer; 1958-1961 — J. A. Dixon, J. R. Hayes, J. G. Aston, D. H. Rank.

COLLEGE OF EDUCATION

1958-1959 — K. R. Beittel, H. S. Brown, H. M. Davison, D. G. Thevaos; 1958-1960 — A. J. Berlin, P. W. Bixby, G. M. Guthrie, W. S. Ray; 1958-1961 — L. P. Guest, E. T. McDonald, F. A. Miller, R. B. Patrick.

COLLEGE OF ENGINEERING AND ARCHITECTURE

1958-1959 — J. A. Fox, D. E. Hardenbergh, E. P. Nye, P. E. Shields; 1958-1960 — A. D. Brickman, F. T. Hall, R. E. McCord, G. L. Thuerling; 1958-1961 — C. Birnie, G. K. Gillan, P. F. Hallock, R. K. Vierck.

COLLEGE OF HOME ECONOMICS

1958-1959 — Della Avery, Gilma Olson, Christine Salmon, William Smith, Jr.; 1958-1960 — Elizabeth Hillier, Lillian Larson, Ruth Pike, L. Jeanne Riebel; 1958-1961 — Mary Dodds, Mary Fuqua, Irene Harms, Elizabeth Hester.

COLLEGE OF THE LIBERAL ARTS

1958-1959 — R. W. Brewster, H. E. Dickson, A. G. Pundt, S. L. Rubenstein; 1958-1960 — Jessie R. Bernard, J. A. Mourant, E. J. Nichols, W. S. Smith; 1958-1961 — J. S. Bowman, Lois B. Hyslop, R. K. Murray, W. F. Striedieck.

COLLEGE OF MINERAL INDUSTRIES

1958-1959 — E. J. Moore, J. J. Schanz, Jr., Robert Scholten, T. S. Spicer; 1958-1960 — A. K. Blackadar, R. G. Ehman, B. J. Kochanowsky, S. C. Sun; 1958-1961 — L. T. Bissey, Phyllis R. Griess, H. J. Read, H. D. Wright.

COLLEGE OF PHYSICAL EDUCATION AND ATHLETICS

1958-1959 — E. C. Bischoff, R. M. Conger, Mildred Lucey, D. B. Swegan; 1958-1960 — F. M. Coombs, E. A. Gross, Marie Haidt, C. M. Speidel; 1958-1961 — Martha Adams, E. E. Baer, C. M. Sykes, G. N. Thiel.

GRADUATE SCHOOL

1958-1959 — M. S. Gjesdahl, A. W. Hutchison, G. K. Nelson, T. S. Oakwood; 1958-1960 — H. W. Frings, James Gemmell, E. W. Mueller, K. R. Smith; 1958-1961 — J. H. Britton, H. B. Curry, H. A. Panofsky, Ruth C. Silva.

Reports of Standing Committees

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A" and made the following corrections:

Sect. I, page 2. At the request of the College of Business Administration delete the Old Curriculum change in Secretarial Science.

Sect. I, page 3. Add the following note before the Curriculum in Chemical Technology:

NOTE: Adoption of the following proposed new two-year associate-degree curriculum implies recommendation to the Board of Trustees of the granting of a new associate degree.

Mr. Shelley then moved the adoption of the report as corrected. The motion was seconded and passed. The report is on file in the office of the secretary.

F. M. Coombs, Chairman of the SENATE COMMITTEE ON CALENDAR, presented the report which had been distributed with the agenda as Appendix "B" and stated that a correction should be made on page 11, item 6, line 2. This line should read "reasons for change from quarter system to semester system". With this correction Mr. Coombs moved the acceptance of the report and adoption of the recommendations on page 4. The motion was seconded. The recommendations are as follows:

1. Modification of the present calendar to encourage continuous study throughout the whole year;
2. That the new calendar consist of two terms, similar to the present semesters, providing for approximately 15 weeks of classes in addition to registration and examination periods, plus a third term during the summer of approximately two-thirds the length of the fall and spring terms, with all three terms to be administered alike;
3. That the present Summer Sessions be continued in coordination with the new calendar.

A. W. Hutchison presented "A Proposed Calendar" which he had distributed to the members of the Senate by mail prior to the meeting and moved that this proposal be substituted for recommendation 2 of the Calendar Committee's recommendations. The motion was seconded. Mr. Hutchison's proposal is as follows:

B. Proposed Calendar

1. The calendar year should be divided so as to provide three periods of approximately equal length for instruction, for example into 16 week periods. One of these, the summer period, should be further divided into two periods of equal length.

It should be a general policy that those sequential courses which are given during the summer period be arranged so that courses normally offered in the fall term are given in the 1st period, and similarly, spring offerings be given in the 2nd period. Courses of broad utility and in great demand could be given at either or both periods, for example, English and basic mathematics.

2. Typically faculty members would be given the opportunity to teach in one of the two summer periods in addition to their teaching in the two main terms. It would be expected that each faculty member would take a vacation during the other summer period. Faculty members on 12 month contracts would find it possible to take a vacation of 4 consecutive weeks on this plan of operation. Academic year employees who teach a full schedule during an eight-week session would be contributing the equivalent of $\frac{1}{4}$ of a year's teaching, and should be recompensed for this at a corresponding rate of pay.
3. Although not an essential feature of this plan it would be highly desirable to start the fall term at such a time as to permit its ending at the Christmas season.
4. A possible arrangement of this kind for the year 1958-59 might be as follows:

Fall term: Begin Monday, September 1, 1958, End Saturday, December 20, 1958—16 weeks; Christmas recess and term break: Begin Monday, December 22, 1958, End Saturday, January 3, 1959—2 weeks; Spring term: Begin Monday, January 5, 1959, End Saturday, April 25, 1959—16 weeks; Term break: Begin Monday, April 27, 1959, End Saturday, May 2, 1959—1 week; Summer term: 1. Begin Monday, May 4, 1959, End Saturday, June 27, 1959—3 weeks; 2. Begin Monday, June 29, 1959, End Saturday, August 22, 1959—8 weeks; Term break: Begin Monday, August 24, 1959, End Saturday, August 29, 1959—1 week; Fall term: Begin Monday, August 31, 1959.

B. F. Howell distributed a comparison of the present calendar with the two proposals and explained the differences. After considerable discussion on the amendment the vote was taken and the amendment was lost by a vote of 55 to 68. The motion on the recommendations of the Calendar Committee was lost by a vote of 54 to 69.

R. G. Bernreuter moved that the Committee on Calendar be requested to consider the feasibility of a continuous plan for having classes in session the year round. The motion was seconded and lost.

J. R. Rackley suggested that the Committee on Calendar be given an opportunity to ex-

plore a quarter plan for this institution. R. G. Stoner moved to recommit the whole question to the Committee on Calendar. The motion was seconded and passed. The complete report of the Calendar Committee, the alternate proposal submitted by Mr. Hutchison, and the explanation presented by Mr. Howell are on file in the office of the secretary.

H. K. Schilling, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report which had been distributed with the agenda as Appendix "C" and moved acceptance of the report and adoption of the recommendations of the Subcommittee on Course Offerings as found on the back of the first page. The motion was seconded. The recommendations are as follows:

1. *Establishment or revision of offerings.* List of proposals be sent to all Senators two weeks before the meeting of the Senate Committee on Courses of Study at which action is to be taken.
2. *Course of Study Committee* (1) to perform present duties and (2) act as review board for existing offerings. All members to be relieved of 1/5 time from other duties at University, or 2(a) *Alternative* — less desirable — Two separate committees to perform (1) and (2) respectively.
3. *College Committee in each College* to review all curricula with small enrollments — made up of competent faculty members with no personal stake in the curricula — to make recommendations to maintain, drop, or modify, through defined channels.
4. *Small classes* — present regulations to be continued — control be on a departmental basis but be the responsibility of respective deans and department heads. Dean must assume responsibility and report each semester to Vice President of Academic Affairs. Any single section below minimum offered twice in succession must be justified and approved through defined channels before being offered a third time.
5. *Each department required to review course offerings to determine duplication* within or outside the department, then report through defined channels (a) actions taken to eliminate duplication, (b) reasons if duplication is not eliminated, and (c) actions to eliminate duplication by other departments.
6. *Each department be charged with responsibility of reviewing course offerings to eliminate unnecessary repetition among courses* within and outside department. (Procedures for changes delineated.)
7. *Each College shall be directed to study and report upon the problems of splintering of subject matter with special attention to curricula with small enrollments.*
8. All regularly authorized courses numbered 1-499 be listed in catalogue. Each department be required to justify any courses not actually taught over a three-year period. Any course not taught over a five-year period to be automatically dropped by the University.
9. Detailed reports required from any College desiring to establish a new curriculum, option, or major. (The ten items of information to be included in such reports are delineated in the larger report, pages 10-11.) *Endorsement of such recommendation by the Dean of the College is to be understood to imply his ascertaining a willingness and ability of University administration to provide adequate economic support for the proposal.*

There was considerable discussion on several points in these recommendations. E. H. Freund asked if the minimum size for a 400 level class on page 7 was not in conflict with the present policy, that it should be eight instead of ten. Mr. Schilling stated that it was the opinion of the committee that with larger numbers of students a minimum size of ten would be more adequate. Mr. Freund then moved that "eight" be substituted for "ten" in the section of the report headed "With Regard to Existing Small Classes". The motion to amend was seconded and passed. The motion to accept the report as amended and adopt the recommendations was passed. The report is on file in the office of the secretary.

M. E. John, Chairman of the SPECIAL COMMITTEE ON ORGANIZATION AND OPERATION OF THE UNIVERSITY SENATE, presented a report which he had distributed at the meeting, and which will lie on the table until the next regular meeting. The report which recommends certain constitutional changes, is as follows:

It is recommended that the duties of the following Standing Committees remain un-

changed: Academic Standards, Admissions, Athletics, Courses of Study, Educational Policy, Extension Policy, Research Policy, Military Instruction, Scholarships and Awards, and Student Affairs. It is recommended that the title of the Committee on Calendar be changed to Calendar and Class Schedule and that its duties be broadened to include policies concerning class schedules. The statement of duties would then read, "The Committee on Calendar and Class Schedule shall recommend to the Senate policies concerning the calendar and class schedules and shall study such matters of policy relating to calendar and class schedules as may be referred to it."

It is recommended that the description of the duties of the Committee on Committees be expanded by adding the following: "It is recommended that the Committee confer with the chairman of each standing committee concerning the personnel of the committee before giving their recommendation to the President of the University. The Committee on Committees shall also bring before the Senate recommendations as to changes in committee structure and function."

At the present time duties of the Committee on Rules are stated as follows: "It shall be the duty of the Committee on Rules to consider and make recommendations to the Senate regarding all proposals on new rules; changes in rules, and amendments to the Constitution and By-Laws; to advise the Senate of conflicts between rules; to recommend needed additions and changes in rules; and to codify and publish the rules from time to time."

It is recommended that they be changed to the following: "It shall be the duty of the Committee on Rules to review all rules in order to advise on conflicts with existing rules, and to recommend to the appropriate committee, or to the Senate as a whole if an appropriate committee does not exist, needed additions or changes in rules. They shall codify and publish the rules from time to time."

Your Committee would like to recommend the following changes and additions in the Constitution and By-Laws. Under Article II after Section III the following should be included as a new section: "A member cannot serve as a chairman of a standing committee for more than four years. A member may not serve as a member of a standing committee for more than six consecutive years, except that a Chairman of the Committee who has served in that capacity for less than four years may continue on the Committee for as long as he is chairman."

It is recommended that under Article 5 as part of Section 7, the following be added: "All suggestions for modification of committee reports relating to policy should be submitted in writing to the committee chairman one week prior to the Senate meeting at which it will be voted upon." It is recommended that under Article 5 a new section, number 8, be included: "All matters of new business shall be considered by a standing or special committee of the Senate before being presented to the Senate for final action." Members of the Senate may present matters of business either directly to a Senate Committee, or in the form of a communication to the Secretary of the Senate, or from the floor of the Senate. We recommend that Section 2, Article I be eliminated.

Comments and Recommendations for The Good of the University

L. E. Dennis commented on the relationship being developed between the various Senate Committees and corresponding committees of the Board of Trustees. He stated that the Committee on Instruction of the Board is keenly interested in the calendar policy question and in the problem of how to secure more effective utilization of staff and facilities. He expressed the hope that the faculty of the University through its Senate representation would soon be able to adopt a proposal which could be placed before the Board of Trustees for its approval prior to the preparation of the 1959-61 biennial appropriation request.

President Walker announced that the next regular meeting of the Senate would be on Thursday, May 29 at 3:10 p.m. instead of the usual 4:10 p.m. The agenda will be distributed on May 15. Chairmen of the Committees are reminded that annual reports will be due at the May 29th meeting.

The meeting adjourned at 4:52 p.m.

C. O. Williams
Secretary

\$150,000 Grant Aids Ionosphere Studies

Dr. Sidney A. Bowhill, assistant professor of electrical engineering, is in charge of a program to develop instruments to be installed in Army rockets to provide important information about the ionosphere.

Under an 18-month, \$150,000 grant from the Army Ballistic Missile Agency to the Ionosphere Research Laboratory, Dr. Bowhill will have four graduate students and 15 part-time technicians to aid him in the work. Object of the instruments is to determine the electron density of the ionosphere, the knowledge of which is needed to estimate the accuracy of missile and satellite tracking systems.

Collections Given To Forestry Library

A collection of the books and papers of the late Dr. Victor A. Beede, who at the time of his retirement in 1952 was head of the School of Forestry, has been presented to the library of the School by his family. The collection contains books by outstanding forestry authorities in the United States and abroad.

Dr. Beede died in 1957. He joined the faculty in 1931.

Another gift of books has been made to the School of Forestry by Randolph H. Thompson, who retired in 1952 as associate professor of wild life management extension.

Late Intersession Registration Granted

Certain students, with the approval of the instructor and adviser, may be permitted to register late and make up missed work in the Intersession program of Summer Sessions this year.

The inclement weather during the winter has caused many school systems to extend their closing dates. As a consequence, some potential Summer Sessions students would not be able to register and attend classes at the opening of Intersession on June 9.

Students thus affected will be authorized to register late and make up missed work provided they would be present at all class sessions beginning not later than Thursday morning, June 12. They will be asked to have a school administrative officer certify in writing that the registration is delayed because of the prolonged school term.

The faculty adviser and instructor involved will be informed of the request. If the late registration privilege is approved, the student will be issued a card to be signed by the instructor certifying that he was in class full time beginning with the date specified thereon. After the card is signed by the instructor, the student is to deliver the card to the office of the dean of the Graduate School if a graduate student or to the dean of the Summer Sessions if a special student.

Items of Interest

Benjamin W. Niebel, associate professor of industrial engineering, spoke to the York chapter of the American Institute of Industrial Engineers recently on "Memo Motion—A Work Simplification and Measurement Tool."

★ ★ ★

E. R. Queer, president of the American Society of Heating and Air-Conditioning Engineers and director of the engineering experiment department, is addressing the regional committee meeting of the Society in Spokane, Wash., today, on the general conditions of the Society and the proposed plan of merger with the American Society of Refrigerating Engineers.

★ ★ ★

Edwin W. Zoller, professor of art, is one of four artist-teachers honored in the 1958 New Talent Annual of "Art in America." A photograph of one of his paintings and a statement by Zoller on the role of the artist as a teacher are presented.

★ ★ ★

Albert Christ-Janer, director of the School of the Arts, delivered the main address recently at the annual Arts Festival sponsored by the School of Fine Arts at Southern Illinois University. He spoke on "What's Modern about Modern Art."

★ ★ ★

Dr. Gerald Torkelson, associate professor of education, served on a panel to discuss use of Citizenship Education Project materials in teacher education at the conference of the Project at Columbia University last week.

★ ★ ★

Dr. Paul Grun, assistant professor of genetics, presented an address entitled, "Mitotic and Meiotic Stability in the Evolution of B Chromosomes," to the biology seminar at Brookhaven National Laboratory last week.

★ ★ ★

Dr. George A. Theodorson, assistant professor of sociology, will present a paper titled, "The Function of Hostility in the Development of Small Group Cohesiveness," at the 1958 meetings of the American Sociology Society at the University of Washington, Seattle, on Aug. 27-29.

★ ★ ★

Dr. Joseph Marin, head of the department of engineering mechanics, will participate in a panel discussion at the Symposium on Fatigue of Metals to be held at the meeting of the Society for Experimental Stress Analysis at Cleveland, Ohio, next week.

Calendar

Friday, May 9

Players production of "The Merchant of Venice," 8 p.m., Schwab Auditorium.
 Players production of "Tonight at 8:30," 8 p.m., Center Stage.
 Mineral Industries Colloquium, 4:10 p.m., Mineral Sciences Auditorium. Dr. M. G. Rutten, professor of geology, visiting at University of Michigan, on "Quaternary Geology in Holland."

Saturday, May 10

May Day celebration, including crowning of May Queen, 3:30 p.m., front campus. In case of rain, Recreation Building.
 Public lecture, 8 p.m., Hetzel Union Building assembly room, by Bernard S. Myers, professor of art history, City College of New York, on "Expressionism in Modern Painting: A Generation in Revolt."
 Varsity track, versus Michigan, 1:00 p.m., Beaver Field.
 Players production of "The Merchant of Venice," 8 p.m., Schwab Auditorium.
 Players production of "Tonight at 8:30," at Center Stage, 8 p.m.

Sunday, May 11

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.
 Roman Catholic Mass, 9 a.m., Schwab Auditorium.
 Eastern Orthodox Service of Worship, 10 a.m., Helen Eakin Eisenhower Chapel.
 Chapel Service, 10:55 a.m., Schwab Auditorium. The Very Reverend N. R. High Moor, dean, Trinity Cathedral, Pittsburgh, Pa.
 Open house program in all women's residence halls, 1:30 to 3:30 p.m. Guided tours in new halls on College Ave.
 Exhibition of student art work, 2 p.m. to 5 p.m., sponsored by Alpha Rho Chi, professional architecture fraternity, at chapter house, 220 E. Foster Ave.
 WDFM broadcast, 10:00 p.m., of "Jeanne D'Arc au Bucher" with Vera Zorina, the Temple University choirs, the St. Peter's Boys Choir, and the Philadelphia Orchestra, conducted by Eugene Ormandy.

Monday, May 12

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Delmar P. Duvall, production manager, Motion Picture and Recording Studio, on "Canoe Country," illustrated with slides.
 Engineering Mechanics Seminar, 4:10 p.m., Room 203, Engineering "A". Dr. Henri Marcuse, in continuation of lecture on "Stress and Strain in Flexible Plates."
 Preliminary meeting of John Henry Frizzell Extempore Speaking Contest, 7 p.m., Room 10, Sparks Building.
 Lecture on "Contemporary Church Music" by composer Roy Harris, 8 p.m., Helen Eakin Eisenhower Chapel, in Religion and the Arts program.

Tuesday, May 13

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. David R. McKinley, associate dean, College of Business Administration, on "Some Observations on the Federal Reserve Rediscount Rate."
 Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Dr. Ira V. Brown, associate professor of American history, on "One Nation Under God."
 Physics Colloquium, 4:10 p.m., Room 117, Osmond Lab. Dr. J. Sohma, University of Maryland, on "Proton Magnetic Resonance in Chain Polymers."
 American Chemical Society meeting, 7:30 p.m., Room 119, Osmond Laboratory. Dr. Melvin S. Newman, professor of chemistry, Ohio State University, on "Optical Activity Due to Intermolecular Overcrowding."
 Faculty meeting, College of Business Administration, 3:10 p.m., Room 111, Boucke Building.
 Chemistry Colloquium, 11 a.m., Room 111, Boucke. Dr. W. C. Fernelius, on "Coordination Compounds: Formation Constants and Related Problems."

Krug Named Assistant Director Of Health Center

Dr. Edgar S. Krug, assistant physician, has been named assistant director and physician in the Ritenour Health Center. A graduate of Jefferson Medical College in Philadelphia, Dr. Krug has been on the staff since 1937, after serving seven years in McConnellsburg, Pa.

Wednesday, May 14

UCA lecture, 8 p.m., Room 121, Sparks Building, by Dr. Eddy Asirvatham, professor of political science, Bihar University, India, on "India's Orbit in the Satellite Age." Co-sponsored by the American Friends Service Committee.
 Slavic Club meeting, 7 p.m. and 8:20 p.m., Room 214, Boucke Building. Russian language movie with English subtitles, titled "The Grasshopper," based on Chekov's La Cigale.
 Academic Year Institute meeting, 3:10 p.m., Room 213, Boucke Building.
 Varsity baseball, versus Temple, 3:30 p.m.
 Varsity lacrosse, versus Lehigh, 3:30 p.m.
 Metallurgy Seminar, 4:10 p.m., Room 317, Willard Building. Dr. J. A. Becker, Bell Telephone Laboratories, on "Adsorption Studies on Metal Surfaces Using the Flash Filament Technique and Field Emission Microscope."

Thursday, May 15

Chapel Choir's presentation of Haydn's "Missa Sanctae Caeciliae," with four guest soloists and the University Symphony, 8:30 p.m., Schwab Auditorium.
 Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Lutheran vespers, with Rev. Arthur L. Ruths, Lutheran student pastor, in charge.
 Mathematics Colloquium, 2:10 p.m., Room 228, Sparks Building. Edward S. Kennedy, American University of Beirut and The Institute for Advanced Study, on "Islamic Planetary Theory."
 Armed Forces Day parade, 7 p.m., College Ave.

Friday, May 16

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. Dr. B. Haggott Beckart, professor of economics, Graduate School of Business, Columbia University, on "Federal Reserve Policy and the Current Recession."
 Players production of "Tonight at 8:30" at Center Stage, 8 p.m.

Approval Of Summer Sessions Programs Being Accepted

Advance approval of Summer Sessions program for the three sessions is now being accepted from on-campus students. Final date for acceptance of these programs is May 15.

Undergraduate, graduate, and special students have been advised to report to their adviser and fill out an official registration form for each session the student expects to attend. The student must then obtain the necessary signatures and present his approved form at the office of the Dean of the Summer Sessions, Room 101, Willard Building.

Students who have not obtained advance approval by May 15 may register in full on the official day of registration for the particular session he plans to attend. These registration dates are: Intersession, Monday, June 9; Main Session, Monday, June 30; and Post Session, Monday, Aug. 11.

May Day, Open Houses Scheduled By WSGA

The annual May Day festivities, climaxed by the crowning of the May Queen, will take place tomorrow, Saturday, May 10 at 3:30 p.m. on the front campus. In case of rain, the program will be held in Recreation Building.

On Sunday, May 11, from 1:30 to 3:30 p.m., open houses will be held in all women's residence halls. Guided tours will be conducted through the new residence halls now occupied. The program is sponsored by Women's Student Government Association.

Radioactivity Fallout Showed Increase In 1957

Measurable amounts of radioactivity fallout were recorded at the University during the 1957 nuclear tests in the western part of the country but the amount is considered insignificant as a health hazard.

Edward S. Kenney, health physicist, who has been recording fall-out measurements for almost a year, said that his daily charts show sharp increases in beta and gamma activity following each of the tests last summer, the increase usually beginning to show within two days after the test.

The heaviest fall-out recorded here was noted on Sept. 10, 1957, when 12,828 disintegrations per minute of beta and gamma active particles were registered. A light rainfall was recorded on this date, which Kenney says undoubtedly helped to cause the sharp increase in fall-out.

Kenney estimates that only about one-tenth thousandth of the disintegrations on that day would have been Strontium-90, considered the most dangerous element in fall-out because it accumulates in human bones, and has a long half-life.

Campus Poetry Magazine Goes On Sale Monday

Pivot, campus poetry publication, which is the product of the Poetry Workshop conducted by Joseph L. Grucci, associate professor of English composition, will go on sale Monday, May 12.

Included in this year's issue are 20 pages of poems of the students in the workshop and of other students, staff and faculty members. The workshop is taken for credit by undergraduate students as Engl. Comp. 13.

Pivot is the only publication of its kind in the country, being exclusively the product of the students in the class. It has enjoyed increasing success in its sale and its reception by critics. It is sold on campus and is sent to teachers of creative writing in more than 200 colleges and universities, and is published on a self-sustaining basis.

Leaves Of Absence Granted

Harrison Kane, assistant professor of civil engineering, has been granted a leave of absence from July 1 to June 30, 1959 to enable him to continue his graduate work at the University of Illinois.

Howard A. Scheetz, research associate in the department of engineering mechanics, is on leave this semester to do graduate study and serve as a half-time graduate assistant.

Dr. Ralph L. Baker, professor of marketing, will be on leave from July 1 to Dec. 31 to conduct a study on integration in the egg industry in various sections of the country for the Marketing Research Division of the U. S. Dept. of Agriculture.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

New Schedule Sequences Announced For Fall

The sequence of class hours for the fall semester, announced by Dr. C. O. Williams, dean of admissions and registrar, shows increased emphasis on classes at noon hours and the formal scheduling of classes in the evening.

The new sequence also calls for starting classes in the afternoon on the quarter-hour and for a "flat" schedule for all classes.

Classes are being scheduled Monday, Wednesday, and Friday at 12:15 p.m. and Monday at 7 p.m. and 8 p.m. During the current semester, a limited number of classes, on an experimental basis, have been held during the noon hour. Evening classes, particularly for examinations, have been scheduled in the past at irregular intervals.

In previous years, an inverted sequence of classes called, for example, for Monday and Friday sections at 8 a.m. and Wednesday at 1 p.m. Next fall, however, the regular sequence will have classes at the same hour, as, for example, Monday, Wednesday, and Friday at 8 a.m. The "flat" sequence is followed in all cases except those which call for evening classes. The sequence to be followed will be Monday at 7 p.m., Tuesday and Thursday at 1:15 p.m., and Monday at 8 p.m. and Tuesday and Thursday at 2:15 p.m.

The complete sequence follows: Sequence A, MWF 8; B, MWF 9; C, MWF 10; D, MWF 11;

Sequence E, MWF 12:15; F, MWF 1:15; G, MWF 2:15; H, MWF, 3:15; I, MWF 4:15; J, M 7, T Th 1:15; K, M 8, T Th 2:15.

Sequence L, TThS 8; M, TThS 9; N, TThS 10; and O, TThS 11.

Proffitt Named Director Of Food Service Department

Robert C. Proffitt, who has been with the department of food service since 1949 and has been acting director since last October, has been named director by the Board of Trustees.

Motherwell To Conclude Religion In Arts Series

Robert W. Motherwell, of the department of arts, Hunter College, New York, will speak on Saturday, May 17, at 8 p.m. in the Helen Eakin Eisenhower Chapel on "Religion and Contemporary Art."

The talk will be the final presentation in the current series, "Religion and the Arts," sponsored by the Committee on Interreligious Affairs.

Motherwell, some of whose works have appeared at the University this year, has received wide recognition in exhibitions throughout the country.

British Atomic Energy Head To Give Commencement Talk

Sir Edwin Noel Plowden, chairman of the United Kingdom Atomic Energy Authority, will deliver the address at Commencement Exercises on Beaver Field Saturday, June 7, at 10:30 a.m.

In accordance with custom, two ceremonies will be held in Recreation Building in case of rain. The ceremonies will be held at 10:30 a.m. and 2 p.m., with candidates from the Colleges of Agriculture, Chemistry and Physics, Engineering and Architecture, and Mineral Industries receiving degrees at the earlier ceremonies. Candidates for commissions, advanced degrees, and associate degrees will attend the ceremony with the college in which their academic work was done.

Canadian Consul General To Speak Wednesday

Charles J. Woodsworth, Canadian consul-general in New York, will speak on "Canada and Its Cultural Development," on Wednesday, May 21, in Room 111, Boucke at 8 p.m. The lecture, which will be illustrated with motion pictures, is sponsored by the Social Science Research Center and the department of sociology.

Woodsworth, former newspaper man, joined the Canadian government as foreign service officer in 1956.

Leaves Approved

Leaves of absence have been granted to the following faculty members:

Dr. Greenville K. Strother, assistant professor of physics, July 1 to June 30, 1959, to study photo receptor mechanisms in the Biophysical Laboratory of the Eye and Ear Hospital of the University of Pittsburgh.

Arthur M. Wellington, professor of counselor education, Sept. 1 to Jan. 31, 1959, to study, write, and travel.

William A. Williams, professor of industrial education, Feb. 1 to July 31, 1959 to complete his doctoral dissertation at the University of Pittsburgh and to complete two monographs.

Dr. Harold J. Read, professor of physical metallurgy, Aug. 1 to Jan. 31, 1959, to travel and conduct research in the field of nonferrous extractive metallurgy.

Dr. Franklin B. Krauss, head of the department of Romance languages, from July 1 to Dec. 31, 1958, to study and travel abroad.

Dr. Paul C. Gilmore, assistant professor of mathematics, has been granted a year's leave of absence, starting July 1. As a specialist in mathematical logic, he will work with the Information Theory Research group of the International Business Machines Company in Ossining, N.Y.

Academic Honesty Stressed In Exams

Faculty members were asked today by Dr. R. G. Bernreuter, special assistant to the president for student affairs, to cooperate with students in promoting academic honesty during the oncoming final examination period.

"Academic honesty is enhanced," Dr. Bernreuter believes, "when faculty members take special precautions to insure the security of their examinations and when they provide adequate proctoring."

Wherever possible, he added, efforts should be made to conduct examinations in rooms where reasonable privacy can be assured every student.

Riemer Explores Concepts Of Democratic Government

Dr. Neal Riemer, associate professor of political science, has undertaken a big job in the realm of political theory. He believes each generation should re-study its basic beliefs in light of changes.



DR. Neal Riemer, associate professor of political science, has admittedly undertaken a challenging task in setting out to explore critically the orienting concepts of modern democratic theory.

Out of this exploration, he hopes, will come a restatement of democratic theory, an ordering of much that is familiar on the basis of a specific conceptual frame of reference. His concern will not be the solution of concrete problems of public policy but the basic ideas underlying democratic politics.

"I believe," Dr. Riemer says, "that every generation must rethink its basic political concepts. Every generation—in the light of its own problems—must reexamine its values, principles, and institutions. Only then is it in a position to decide which to retain, which to modify, which to eliminate. Political theory, rightly conceived, can be a prudent guide to action. It is highly preferable to 'muddling through'."

Aided by a fellowship in political philosophy awarded by the Rockefeller Foundation, Dr. Riemer will attempt to complete a first draft of a study which he has tentatively entitled "Democratic Theory in a Pluralistic Community." He will be on leave during the next academic year to work on this study. Before doing so, however, he will complete a book on James Madison's political theory which enabled him to explore some of his reformulated democratic concepts on a small scale. An article on Madison and modern democratic theory will appear in the August issue of *The Journal of Politics*, and is called "Two Conceptions of the Genius of American Politics."

Dr. Riemer's interest in modern democratic theory is an outgrowth of his honors work in American history at Clark University where he received a B.A., wartime reflection in the United

States and Great Britain, and his graduate work in government at Harvard University where he received his Ph.D. He has been responsible for the work in political theory since joining the Penn State faculty in 1948. His projected study first took shape as a series of lectures in one of his courses in political theory.

The concept Dr. Riemer proposes to examine first involves the definition of political theory. He holds that political theory is concerned with feasible programs of action, worked out in the light of the limitations and possibilities of political reality, to advance consciously conceived ends. Put differently, political theory seeks the harmonious reconciliation of the "ought," "is," and "can be" of political life.

A second concept relates to the primary value judgment of political theory. In his view this judgment should be human realization or the desirability of the freest and fullest possible realization of each man's unique, good, creative, potentialities. The defense of this judgment, Dr. Riemer believes, will be the most difficult job in his projected book.

The next concept is that of limits. "We should not," Dr. Riemer holds, "attempt to play God or to construct Utopias. Because of the mortal, finite, fallible nature of man perfect realization is impossible. One of the real dangers of the disregard of the limits imposed by our nature and by the nature of our world is that of totalitarianism.

"However, there is ample room for safe development of the individual's potential within the wise framework of a theory of limits. We do not know the upper limits of man's realization. We do know that the effort to realize the best in ourselves to the best of our ability is mandated by democracy's primary value judgment.

"Man's wit and will — a fourth concept — is therefore necessary to advance his fulfillment and to guard against his decline.

Yet another orienting concept Dr. Riemer proposes, is that of accommodation. Because individual and group potentialities conflict there is needed a set of principles and institutions which can effectively and harmoniously accommodate the struggle of interests in a free society. Majority rule is one such complex principle. The political party is one institution.

Solution of the problem of the respective roles of the individual, the group, and the state is another knotty task of the democratic theorist. He must work out a rationale justifying these roles.

A seventh orienting concept is that of political obedience. Whom should we obey? And why? In a pluralistic society, Dr. Riemer notes, many claim the individual's obedience. "Primarily," he says, "we are obligated to obey because in doing so we are advancing the freest and fullest possible realization of our own unique, good, creative potentiality." The competition of many groups — church, state, private voluntary organizations — for our allegiance is positively desirable, he maintains, because such competition protects our freedom.

Still another orienting concept Dr. Riemer considers is that of the calculated risk. These risks involve, among others, confidence in the virtue, intelligence, and will of the many who support and follow public policy. And here, he believes, we must and can be more modest in our expectations of the average citizen. Another risk is that of sound democratic leadership; another is the possibility of majority rule. Any theory worth its salt, he feels, must regularly recalculate these

risks in the light of changing circumstances.

"Theory, rightly understood, must be a theory for a real world. It cannot be a blueprint for Utopia. It cannot, if it is to work, be hopelessly wedded to the status quo. Thus conceived," Dr. Riemer concludes, "political theory is a creative adventure in the realm of ideas and in the realm of action. And the adventure is of epic proportions. It is not, of course, without its elements of irony or tragedy. But the irony may make us skeptical of our own intellectual omniscience and moral righteousness; and the tragedy may serve to purify us in our never-ending quest for the true meaning of human existence."

Two other books have helped to prepare Dr. Riemer for his current study. One of these, *Problems of American Government* is a book of readings he edited in 1952. The other, of which he is one of four co-authors, is *World Affairs: Problems and Prospects* which is to be published in September by Appleton-Century-Crofts.

Five Inge Plays Premiere At Standing Stone July 28

Five short plays by William Inge, Pulitzer Prize and Critics Circle Award winner, will be given their world premiere at Standing Stone Playhouse from July 28 to Aug. 2, as part of the eight-week season opening June 23.

The plays are "Glory in the Flower," which is the longest play of the five, and "Sounds of Triumph," "To Bobolink for Her Spirit," "The Tiny Closet," and "Memory of Summer."

Grant Made For Fertilizer Study

A \$5,000 grant from the Columbia Southern Chemical Corporation of Pittsburgh has been made to the department of agronomy to promote studies in ammonium chloride as a source of fertilizer nitrogen.

Bats Subject Of Study By Behrend Center's Dr. Smith

The homing habits of non-migratory bats are reported by Dr. Elizabeth Smith, assistant professor of botany and zoology at the Behrend Center, in the March 21 issue of *Science Magazine*.

The article, titled "Homing in Non-migratory Bats," deals with distances flown by bats which weigh less than one-quarter ounce. They are taken from their home caves and released some distance away. How they find their way back home, is the subject of Dr. Smith's study.

Dr. Smith has released almost 400 bats from Behrend campus during the past two years, and has observed two species of non-migratory bats return home from an unusual distance. Her work in this field has attracted nationwide attention from scientists and scientific societies.

Items of Interest

Dr. Max D. Richards, associate professor of management, is co-editor of a new book, "Readings in Management" published by South-Western Publishing Co.

Wolfgang E. Meyer, professor of mechanical engineering, spoke on the process of starting Diesel engines and aids developed at the University before the meeting of the Subcommittee on Winterization of the Construction and Industrial Machinery Committee of the Society of Automotive Engineers recently.

Dr. L. W. Hu, associate professor of engineering mechanics, will present a paper this month on "Development of a Triaxial Stress Testing Machine and Triaxial Stress Experiments" at the Spring meeting of the Society for Experimental Stress Analysis.

Dr. John F. Corso, professor of psychology, gave a paper on "Effects of Age and Sex on Pure-Tone Thresholds" at the 55th meeting of the Acoustical Society of America last week.

"The Need for Constitutional Revision" was the title of a talk given by Dr. Nelson McGeary, head of the department of political science before the Central Pennsylvania Chapter of the American Society for Public Administration last week.

Members of the department of ceramic technology who presented papers at the 60th annual meeting of the American Ceramic Society held in Pittsburgh recently included: G. W. Brindley, Irene S. Stemple, M. Nakahira, F. H. Gillery, E. A. Bush, F. A. Hummel, Nazzareno Viola, M. C. McQuarrie, and G. K. Layden.

Dr. J. Mitchell Morse, assistant professor of English composition, is the author of two articles appearing current issues of scholarly journals: "The Philosophy of the Clerk of Oxenford" in the *Modern Language Quarterly*, and "Baudelaire, Stephen Dedalus, and Shem the Penman" in *The Bucknell Review*.

Dr. Louis Dupree, associate professor of anthropology, is author of an article, "The Arabs of Modern Libya" in the April issue of *The Muslim World*.

Dr. D. F. Mitchell, assistant professor of genetics, will lecture on "Inversion Heterozygosity, Recombination and Variability of Quantitative Traits in Population of *Drosophila*" on June 9 at the Biological Laboratory, Cold Spring Harbor, L.I., N.Y.

Biotron Survey Underway

Dr. Loren D. Tukey, associate professor of pomology, recently attended a Biotron Committee meeting at Yale University to discuss the feasibility of such an installation in eastern United States.

The Biotron provides control of most environmental factors and is used for basic research in plant and animal sciences. It includes equipment for controlling temperature, humidity, light quality and intensity, and wind velocity.

Plant and animal researchers attended the meeting to state their specific needs in environmental control studies. The Botanical Society of America and the National Science Foundation are cooperating in the survey.

Gift Provides For Student Art Purchases

Hunter, Campbell, and Rea, an architectural firm of Altoona, has provided \$200 to purchase prizes for student work in art. The gift will enable the University to purchase some of the best paintings by students which can be added to the present collection to be placed in residence hall lounges and other appropriate locations.

Anderson To Head Philosophy Dept.

Dr. John M. Anderson, professor of philosophy, will serve as head of the department of philosophy for a three-year term beginning July 1.

The appointment follows a policy which provides for rotation in the position. Dr. Ernest H. Freund has been serving during the past three years in the position.

IBM Instruction Scheduled May 19, 20

Instruction in the use of the Type 402 Accounting Machine will be given on Monday and Tuesday, May 19 and 20 in Room 101 Boucke Building from 7 to 9 p.m. Interested persons are asked to call Computation Services, Ext. 723.

Instruction in the use of the Card-Programmed Electronic Calculator will be scheduled at a later date, to be announced.

Faculty Luncheon Club Elects Steering Committee

The Faculty Luncheon Club, which meets weekly at noon on Monday, has elected the following members of the faculty to its Steering Committee for the Fall Semester: Lt. Col. Robert G. Hayes, assistant professor of air science; Dr. William G. Mather, head of the department of sociology; Harriett D. Nesbitt, assistant professor of public speaking; Lucille J. Strauss, librarian, College of Chemistry and Physics; and Dr. Walter H. Walters, head of the department of theatre arts.

Calendar

Friday, May 16

American Statistical Association meeting, 4 p.m., Room 217, Willard Building. Dr. Charles F. Wrigley, associate professor of psychology, Michigan State University, on "The Achievement of a Completely Objective System of Factor Analysis."

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. Dr. B. Haggott Beckart, professor of economics, Graduate School of Business, Columbia University, on "Federal Reserve Policy and the Current Recession."

Players production of "Tonight at 8:30" at Center Stage, 8 p.m.

Saturday, May 17

Varsity baseball versus Lafayette, 2:30 p.m., Beaver Field.

Varsity and freshman track, versus Pittsburgh, 1 p.m.

Varsity tennis, versus Bucknell, 2:30 p.m.

Varsity lacrosse, versus Dickinson, 4 p.m.

Players, production of "Tonight at 8:30," at 8 p.m., Center Stage.

Religion and the Arts lecture, 8 p.m., Helen Eakin Eisenhower Chapel. Robert Motherwell, department of arts, Hunter College, on "Religion and Contemporary Art."

Sunday, May 18

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Hans Hofmann, associate professor of theology, Harvard Divinity School.

WDFM "Third Program," 10 p.m. Recording of Carl Orff's "Carmina Burana," with Dr. Philip A. Shelley, professor of German, as commentator.

Monday, May 19

Finals of John Henry Frizzell Extempore Speaking Contest, 7 p.m., Room 10, Sparks Building, 7 p.m.

Lecture-demonstration on the art of mime, by Etienne Decruux, 8 p.m., Schwab Auditorium, sponsored by the department of theatre arts.

Engineering Mechanics Seminar, 4:10 p.m., Room 203, Engineering "A". Dr. Henri Marcus, special lecturer in engineering mechanics, on "The State of Stress in Thin Shells."

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Henry L. Yeagley, associate professor of physics, on "New Developments in the Study of Bird Navigation," illustrated with slides.

Tuesday, May 20

Plant Science Club meeting, 7:30 p.m., Room 111 (Tyson). Dr. Carl S. Bittner, professor of pomology extension, on "Extension in Scientific Agriculture." Open to the public.

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Dr. Amos J. Shaler, head of the department of metallurgy, in charge.

Honors Day program, College of Engineering and Architecture, 4:10 p.m., Schwab Auditorium

Wednesday, May 21

Metallurgy Seminar, 4:10 p.m., Room 317, Willard Building. John Kosco, graduate assistant in metallurgy, on "Oxidation Resistance of Cermet Materials."

Graduate Mining Seminar, 4:15 p.m., Room 24, Mineral Industries. T. M. Robertson on "Application of Continuous Mining Machines to Hard Rock."

Varsity baseball, versus Colgate, 3:30 p.m., Beaver Field.

Illustrated lecture, 8 p.m., Room 111, Boucke Building, by Charles J. Woodsworth, consul-general of Canada in New York, on "Canada and Its Cultural Development," sponsored by the Social Science Research Center.

Thursday, May 22

Methodist Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. The Reverend Richard W. Nutt, Methodist chaplain to the University, in charge.

Liberal Arts Research Luncheon, 12 noon, dining room "A", Hetzel Union Building. Dr. John Huzzard, assistant professor of English composition, on "George Meredith and the Risorgimento."

Annual dinner of the AIEE-IRE societies, dining room "A", Hetzel Union Building, 6:30 p.m. Cyril Hoyer, manager, technical relations, Radio Corporation of America, with a demonstration-lecture on "New Adventures in Electronics," in HUB Auditorium at 8 p.m.

Philosophy Section

Meets Saturday, May 24

The Spring meeting of the Western Pennsylvania Philosophical Society will be held in Rooms 214-216, Hetzel Union Building, on Saturday, May 24.

The morning session, beginning at 11 a.m., will open with a talk by Jean Ladriere, professor of the University of Louvain and at present visiting professor at Duquesne University. He will speak on "The Philosophical Implications of Godel's Theorem," and the paper will be discussed by Dr. Haskell B. Curry and Harry T. Hiz, both of the department of mathematics.

The afternoon session, starting at approximately 2:15 p.m., will feature a panel discussion of Heidegger's Existentialism. Dr. John M. Anderson, professor of philosophy, will moderate the panel, which will include Dr. Bernard Boelen, and Vincent Vycinas, both of Duquesne University, and Dr. Stanley Rosen and Dr. Ernest Freund, of the philosophy department at Penn State. A tea will follow this session.

The meetings are open to all who are interested.

Sorauf Given Grant To Study Politics

Dr. Frank J. Sorauf, assistant professor of political science, has been awarded a grant of \$8,600 by the National Social Science Research Council to support his study of the recruitment of political leadership in Pennsylvania.

The aim of the study Dr. Sorauf will conduct is to develop an understanding of the processes by which political leaders and candidates are chosen. He will interview political leaders and others interested in politics.

Dr. Sorauf has been granted a leave of absence from Feb. 1 to June 30, 1959.

Films Listed For Preview

Materials listed below have been requested. Please call Extension 2051 and give code number of those you would like to see; you will be notified when they arrive so that you can arrange a preview showing in Room 9, Library.

- Ma-1 Helicopter Carries Mail
- Ma-2 Chimpunk and His Bird Friends
- Ma-3 Crisis in Levittown, Pa.
- Ma-4 All the Way Home (discrimination in housing)
- Ma-5 Indochina
- Ma-6 Germany — Key to Europe
- Ma-7 The New South Asia
- Ma-8 Color of Life
- Ma-9 Allen Is My Brother (Sibling relations)
- Ma-10 Living and Growing
- Ma-11 The Forest Tent Caterpillar
- Ma-12 The Social Worker
- Ma-13 Bolero
- Ma-14 Our National Anthem
- Ma-15 Toccata and Fugue
- Ma-16 Engulfed Cathedral
- Ma-17 Fingal's Cave
- Ma-18 The Van de Graaff Generator
- Ma-19 Preparation of Hydrogen
- Ma-20 Air Pressure
- Ma-21 Surface Tension
- Ma-22 Radiant Heat
- Ma-23 None for the Road
- Ma-24 The War of 1812
- Ma-25 Riches of the Earth
- Ma-26 Iron Curtain Lands
- Ma-27 Using the Laboratory
- Ma-28 The Salesman
- Ma-29 Once Upon a Bicycle
- Ma-30 Education '57

Campus Trends . . .

Brandeis University has announced a plan to bring students from each of 50 nations outside the Iron Curtain, to be housed on campus and attend classes with regular students. Grants of \$3,000 will be awarded to each student. Purpose is to provide "a steady flow of gifted foreign college students to enrich Brandeis campus life and send student ambassadors back to their own educational systems fortified by a firsthand knowledge of the United States."

At Fordham University, a pilot program has been set up to train liberal arts graduates to teach in secondary schools. The 18 candidates in the initial program took a six-week course in observation, student teaching and graduate studies last summer, received provisional teaching certificates and are now teaching in New York area schools. They attend Saturday classes for a seminar in teaching and of the psychology of adolescent development.

Honors Day Program

The Honors Day program of the College of Engineering and Architecture will be held on Tuesday, May 20, at 4:10 p.m. in Schwab Auditorium. Fellowships, scholarships, awards, and prizes for students in the College during the current academic year will be formally announced. Dr. Merritt A. Williamson, dean of the College, will preside and address the award winners and senior students.

Report from the Registrar

WITHDRAWALS (Campus)

- 2 Bachman, William E., For, March 14—Mont Alto
- 3 Camerlengo, Nonie E., Coun, March 17
- 1 Jennings, Ralph Albert, Ag Ed, March 16
- 1 Kohler, Robert J., C. E., March 17
- 6 Loughney, Eugene Joseph, C. E., April 17
- 2 Mitchell, John S., A L, April 18
- 2 Morrison, Emery L., Coun, April 17
- 1 Neifert, John C., B A, April 18
- 2 Package, Thomas L., Coun, April 21
- 4 Poleri, William F., C E, April 17
- 2 Bunting, John H., Coun, April 30
- 2 Byers, James R., Coun, April 23
- 2 Createo, Nancy L., Coun, April 29
- 2 Dean, Emerson Guyne, Psy, May 1
- 2 Disalvio, Albert N., EE, April 29
- Gr Erocle, Joseph A., ED, April 25
- 2 Goodrich, Raymond H., Coun, April 25
- 6 Kovatch, Eugene Joseph, EE, April 26
- 2 McCormey, Ronald Jacob, ED, April 29
- 2 Moulder, George R., Coun, April 25
- 2 Murphy, Richard Stephen, CE, April 22
- 6 Nelsen, Neal Kendig, EE, April 30
- 7 Pindar, William K. Jr., LArch, April 29
- 2 Rabinowitz, Sandra Rosalyn, Coun, April 29
- 2 Root, Stephen A., EE, April 25
- Gr Slecum, Diana F., Mu ED, April 23

WITHDRAWALS

(University Centers)

Bachelor Degree Program

- 2 Benner, Richard Byron, P V, April 18
- 1 Casele, Joseph Jr., Aro E, April 18
- 2 Brown, Walter Edmund, BA, April 24
- 2 Calhoun, Norman Andrew, BA, April 18
- 2 Goldstein, Lawrence Edward, PM, April 21
- 2 Losch, Fred S., EE, April 11
- 2 Spinelli, Raymond Michael, April 25

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Blue Band Concert Sunday

The Penn State Concert Blue Band, under the direction of James W. Dunlop, professor of music education, will present its annual Spring concert on Sunday, May 25, at 3 p.m., on the steps of Pattee Library. In case of rain, the concert will be held in Schwab Auditorium.

Cutler Appointed Assistant To Dennis

Dr. Howard A. Cutler, head of the department of economics and for the past year co-ordinator of the General Education Program, has been appointed assistant to the vice-president for academic affairs and director of General Education, effective July 1.

In his new position, he will assist in general administration of educational policy with specific staff responsibility for coordinating general education courses, the Army, Air Force, and Navy ROTC programs, undergraduate area studies, honors programs, and other inter-college instructional projects at the undergraduate level. He will also be responsible for implementation of policies approved by the University Senate and the Administrative Committee on Procedures.

Carpenter To Devote Full Time To Division

Dr. C. R. Carpenter, who has been head of the department of psychology since 1952, has resigned to devote full time to his position as director of the Division of Academic Research and Services, which he has directed since its formation last year.

Leslie P. Greenhill, who has been assistant director of the Division, will become associate director on July 1.

Senate Meets Thursday

The regular meeting of the University Senate will be held on Thursday, May 29 at 3:10 p.m. in the Hetzel Union Building assembly room. Please note the change in time.

Trustees Approve Leaves Of Absence

The following leaves of absence have been approved by the Board of Trustees:

Jack H. Vincent, assistant professor of economics, from July 1 to Jan. 31, 1959, to complete work for his doctor of philosophy degree at the University of Pittsburgh.

✓ Arthur T. Thompson, associate director of the Ordnance Research Laboratory, from Aug. 1 to July 31, 1959, to enroll for graduate study at the University of Chicago and to pursue an assignment in research administration for the Crane Co., Chicago, Ill.

✓ Dr. Ray Pepinsky, research professor of physics and director of the X-ray and Crystal Structure Laboratory, to accept a Guggenheim fellowship to do research at the University of Zurich, Switzerland.

Harold V. Walton, associate professor of agricultural engineering, from Sept. 1 to June 30, 1959, to enroll at Purdue University working to a doctor of philosophy degree in agricultural engineering.

Dr. William U. Snyder, director of the psychology clinic, from Feb. 1 to June 30, 1959, to work on a book incorporating research information he has been gathering for the past three years.

✓ Chester Linsky, associate professor of industrial engineering, for one year, effective July 1, to work with the European Productive Agency to set up automation programs throughout Europe.

✓ Dr. Thomas F. Bates, professor of mineralogy, for one year beginning Sept. 1, to study the formation of clay minerals in the Hawaiian Islands, as a senior post-doctoral fellow of the National Science Foundation.

Ellen K. Garber, associate professor of home economics extension, from Sept. 16 to Sept. 15, 1959, to enroll as a candidate for a master of science degree at the University of Wisconsin.

Grade Deadlines Announced

Grades for all students, including graduate students, who are to be awarded degrees at the June commencement exercises, must be reported to the Recorder's Office, Room 4, Willard Building, not later than 9:00 a.m., Wednesday, June 4, 1958.

Dr. C. O. Williams, dean of admissions and registrar, has also announced that grades for all other students must be reported to the Recorder's Office within 48 hours after the final examination, or, in the case of research grades, not later than 12:30 p.m., Friday, June 6.

Final examinations end at 12:30 p.m., Wednesday, June 4.

Promotions Announced

The Board of Trustees has announced the following promotions, effective July 1:

✓ Dr. Warren W. Miller, from associate professor to professor of chemistry;

Dr. Frederick L. Wernstedt, from assistant professor to associate professor of geography;

Dr. George J. Young, from assistant professor to associate professor of fuel technology;

Nancy Louise Kern, from assistant extension home economist to associate extension home economist.

Bank Establishes Scholarship

The Central National Bank of Cleveland, Ohio, has established a scholarship to assist a senior in the College of Business Administration in honor of its president, Loring L. Gelbach, who was enrolled as a mining engineering student at Penn State in the class of 1915.

The scholarship will provide for the total fixed charges of about \$350 per year, the fee for a Pennsylvania student.

No Issue Next Week

There will be no issue of the *Faculty Bulletin* next week due to the Memorial Day recess. The next issue will appear on June 7.

Poetry Workshop Draws Praise For Publication

Joseph L. Grucci, standing, associate professor of English composition, leads the Poetry Workshop in a session of presentation and criticism.



IF the Poetry Workshop, directed by Joseph Leonard Grucci, associate professor of English composition, were judged only by the success of its publication, *Pivot*, it would be termed successful.

And if to the commercial aspects of the adventure were added the comments of eminent poets and critics, the Workshop would take on even added stature.

But the real success of the Workshop, otherwise known as the class in English Composition 13, lies in the great development of the relatively unschooled students who, even in one semester but more especially in two or three, show a remarkable metamorphosis in their ability to express their thoughts in poetic language.

The Workshop, which meets once a week in the evening, enrolls not only undergraduate students but is also audited by graduate students (in varied fields), faculty and staff members. Aside from the "old timers", who stay long past "graduation" with the Workshop simply because they like poetry, the class starts each semester with a preponderance of raw, green recruits whose usual efforts have been those of the sentimental, Valentine hack writers or the bohemian who wants to be different but doesn't quite know how to say it.

The class is operated democratically—everyone has a chance to criticize if he wishes and the author may rebut. In the early stages of each semester's work, criticism is likely to be somewhat guarded except from those who have taken the course previously. But within a relatively few sessions the poet must be prepared to accept the barbs of the entire class if his product shows weaknesses. By the end of the semester nothing less than a good product will escape a thorough beating, regardless of the good intentions of the author or of his stature and personality.

Matthew Robinson, winner of the Samuel Barsky award for the best work done this semester, has regularly submitted what the class considers good work. At last week's session, however, his effort was strongly criticized even with such comments as "It isn't

even poetry." Robinson, as a veteran of the class, took the criticism in good grace and admitted that he had failed.

The act of criticism, having merit on its own for its instructional value, is not the goal of the workshop, however. The ultimate aim, as expressed by Grucci in the current issue of *Pivot*, is to "improve the quality of a student's writing, and it's quite remarkable to what degree the quality can be improved . . ."

Indeed the improvement is remarkable. One young lady, who has had difficulty all semester developing an acceptable poem, did so with a vengeance last week. Her word pictures were lucid, her structure solid, and her idea sound. The poem she read was criticized and some changes were suggested, but the author was warmly commended for her development.

The operation of the Workshop is not the easiest method for the students to do their work. Writing a poem on command, once a week or nearly that often, is not the most likely atmosphere for outstanding work. Writing a good poem on command in any period of time is like composing an unusual piece of music to meet a deadline because the boss said you must. Creative art doesn't work that way.

And yet such comments as "an impressive college production representing a very high level of talent and tastes," have been granted to *Pivot* by recognized poets such as Stanley Hyman, William Van O'Connor, Marianne Moore, and Babette Deutsch.

Obviously *Pivot* contains only the best of each year's output. There are some relatively weak compositions in it, just as there are in almost any anthology. But those who are concerned about scholarly endeavor at Penn State would feel somewhat relieved if they gave *Pivot* a serious reading.

Although the great bulk of the poetry turned out in the Workshop is serious and deep, there is some light verse. There is usually, as in the case this semester, an effervescent personality in the class whose forte is light verse, sometimes in the Ogden Nash style, but most frequently in an individualized style. Peg Fowler's poem relating to

the R.O.T.C. parades, although localized in its intent, was amusing enough for general acceptance.

No type of verse is discouraged. The criterion for acceptance is simply, "Is it good poetry?" Perhaps Grucci's own ideas enter at times into the attitudes developed but he makes a special attempt to bring out the ideas of the members of the class. When a poem is read by the student, there is silence while the class reads the poem again. When comments are asked for, they come slowly at first then pick up momentum as ideas are interchanged, expanded, and, in some cases, argued.

The result of the criticism may be a request to make a few minor changes, a suggestion to omit certain lines and alter others, or the implied notation that the poem isn't worth the effort of attempting to improve it.

If the poem has merit, Grucci will help the student find a publisher and, of course, considers it for *Pivot*. There are too few publishers of poetry but the lack of a market doesn't deter the students. They aren't members of the Workshop for ultimate financial return.

Guests are welcome at the Workshop, to listen or to submit a poem for criticism, and several faculty and staff members have taken advantage of the opportunity to try out their own efforts on a critical audience. Frankly, on occasion, they went away disappointed, not in the Workshop and not in what they had learned, but in the fact that their poem had not been generally accepted.

It is remarkable that relatively untried undergraduates can demonstrate the powers that they do. These, in many respects, are immature individuals whose experiences are limited and whose command of language needs broadened. Yet by having their eyes opened to the things around them and to what is taking place in the world, they have obviously widened their horizons. Perhaps from this standpoint alone the Workshop is accomplishing a desirable mission.

To be mundane, the fact that more than a thousand copies of *Pivot* are now printed for sale and distribution to other colleges and that the publication is

self-supporting is adequate proof that the product of the Workshop is good. Other literary publications on campus have come and gone in the eight years Grucci has conducted the Workshop, but his group is stronger than ever.

About 20 students, staff and faculty members are members of the Workshop this year. Perhaps if there were many more, the flavor of the class meetings would be altered undesirably but now "recruits" are always welcome.

Grucci, who has published three books of poetry and one of the translations of three Spanish-American poets, continues to write to avoid Shaw's stigma, "Those who can't, teach."

Many of his poems have been published in leading and reputable quarterlies and such poets as Marianne Moore and Wallace Stevens have praised him highly.

His aim in the Workshop is not necessarily to make poets of his students but to help them express themselves. He is as successful in that aim as he is in his own writing.

Foreign Language Tests Scheduled

Graduate students planning to take one or both the written foreign language reading examinations on July 28 and who have not previously taken the preliminary oral tests given to determine the extent and adequacy of their preparation for these examinations should arrange for oral tests as follows:

For German oral tests on July 1, 2, and 3, at Room 229, Sparks.

For French and Spanish oral tests, same dates, Room 300, Sparks.

All other students who have previously passed the preliminary oral tests but have failed the written examination should register for the regular written examination on July 28 no later than July 3 in Room 229 Sparks, for German, and Room 300, Sparks, for French and Spanish.

GSA Awards Contracts For ROTC Building

The General State Authority has announced the awarding of contracts totalling \$1,181,745 for construction of the military, air, and naval science building to be constructed on Two-Mile Road near the Flower Gardens. The General Contractor will be John McShain, Inc., of Philadelphia.

Also awarded was a \$182,800 contract to Germac Mechanical Contractors, Bellefonte, for plumbing work on the meats laboratory, turkey brooder, and turkey breeder houses.

Name Changed

The name of the department of sociology has been changed to the department of sociology and anthropology in keeping with designations in use at other land-grant universities. Dr. William G. Mather is head of the department, which offers work in both fields.

Items of Interest

Harold P. Zelko, professor of speech, recently addressed the annual conference of the Pennsylvania Electric Association at Hershey on "Customer Relations Start Inside the Organization."

★ ★ ★
Dr. Grace M. Henderson, dean of the College of Home Economics, discussed the interrelation of resident teaching, research, and home economics in the land-grant institutions recently before the graduate student seminar in the National Agricultural Extension Center for Advanced Study at the University of Wisconsin.

★ ★ ★
Dr. Haskell C. Curry, professor of mathematics, is co-author with Dr. Robert Feys, professor of philosophy at the University of Louvain, Belgium, of the first volume of a two-volume work, "Combinatory Logic" published recently in The Netherlands.

★ ★ ★
Dr. R. Wallace Brewster, professor of political science, is author of a new textbook, "Government in Modern Society," intended for introductory political science courses at the college level.

★ ★ ★
Dr. William M. Smith, Jr., discussed "Current Trends Affecting American Families" at a convocation at the State University Teachers College in Plattsburg, N.Y. this week.

★ ★ ★
Dr. Eugene J. Skudrzyk, professor of engineering research, gave a paper on sound and vibration at the recent 55th meeting of the Acoustical Society of America, in Washington, D.C.

★ ★ ★
Dr. Jessie Bernard, professor of sociology, gave a paper on neo-marital programs for the prevention of marital instability at the annual forum of the National Conference on Social Welfare at Chicago, Ill., last week.

★ ★ ★
Reed T. Phalan, assistant professor of business law, is author of an article on "The Obligation of Parties to Sales of Goods under the Uniform Commercial Code," published in the March issue of the Dickinson Law Review.

★ ★ ★
Dr. Joseph F. Bradley, professor of finance, participated in a seminar on savings and residential financing, at the meeting of the United States Savings and Loan League in Chicago, earlier this month.

★ ★ ★
Dr. Paul D. Holtzman, associate professor of speech, was elected first vice-president of the Speech Association of the Eastern States during the recent convention in New York.

Max Fischer, Kelly Yeaton To Direct Standing Stone

Max Fischer, who directed productions at the Standing Stone Playhouse for two seasons, has agreed to return this summer as director of six of the eight plays to be presented there.

Kelly Yeaton, associate professor of theatre arts, will direct two plays on the eight-weeks program.

The season starts June 23 and closes Aug. 16.

Resignations Announced

✓ Dr. Guilford G. Quarles, director of the Ordnance Research Laboratory since 1952, has resigned from this position effective Apr. 20. He has been on leave of absence since Nov. 1, 1956, to serve with the Army Ballistic Missile Agency, Redstone Arsenal, for the past year. Dr. Benjamin L. Snively has been acting director of the Laboratory.

✓ Dr. Henry G. Lew, professor of aeronautical engineering has resigned, effective Mar. 31, to accept a position with Missiles Ordnance and Systems Department, General Electric Co. He has been on leave since Sept. 1.

✓ Dr. Roger R. Yoerger, associate professor of agricultural engineering, resigned, effective July 15, to accept a position at the University of Illinois.

Resignations in the department of agricultural and home economics extension included: Vivian P. Moon and Ruth K. Kreibich, extension home economists, and Jane E. Barber and Darcie Lane Rhoda, associate home economists.

Leaves Extended For Five

Leaves of absence for five faculty members have been extended. They include:

✓ Dr. Charles M. Long, head of the department of education, from July 1 to Sept. 1, 1958, to continue working with the International Cooperation Administration in Brazil.

✓ Dr. John H. Ferguson, professor of political science, from July 1 to June 30, 1959, to continue serving as secretary of administration and budget secretary for Gov. George M. Leader.

✓ Dr. Richard N. Jorgensen, assistant professor of wood technology, from July 1 to June 30, 1959, to continue with the Food and Agriculture Organization of the United Nations at the University of Los Andes, Venezuela.

John W. Bergstrom, assistant county agricultural agent in Mercer County, from June 16 to Sept. 15, 1959, to complete work toward master of science degrees in rural sociology.

Guy H. Temple, assistant county agricultural agent in Lawrence County, for the same dates and purpose.

LeSage Wins Fulbright Grant

Dr. Laurent LeSage, professor of Romance languages, has been awarded a Fulbright senior research grant for France for the next academic year. He will be on leave from July 1 to June 30, 1959, to prepare a book on contemporary French literary criticism.

Calendar

Friday, May 23

Fluid Mechanics Seminar, 4:10 p.m., Room 1, Sackett Building. Dr. George F. Wislicenus, director of the Garfield Thomas Water Tunnel, on "The Design of Vane Systems for Turbomachinery."

Saturday, May 24

Spring Semester classes end, 11:50 a.m. Final exams begin, 1:10 p.m.

Spring meeting of the Western Pennsylvania Philosophical Society, 11 a.m. and 2:15 p.m., Hetzel Union Building.

PIAA track and field championships, Beaver Field, 10 a.m. and 2 p.m. Golf and tennis championships, 9 a.m.

Varsity and freshman lacrosse, 2:30 p.m.

Sunday, May 25

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther Harshbarger, University chaplain.

Concert by Penn State Concert Blue Band, 3 p.m., Pattee Library steps. In case of rain, Schwab Auditorium.

Wednesday, May 28

Meeting of the College of Business Administration faculty, 10:20 a.m., Room 214, Boucke Building.

Thursday, May 29

University Senate meeting, 3:10 p.m., Hetzel Union Building assembly room.

Friday, May 30

Memorial Day recess.

Wednesday, June 4

Spring semester ends, 12:30 p.m.

Summer Study In Paris Offered Students

A program of Summer Study in Paris, for which students may earn three credits by enrolling in Pol. Sci. 499, is being offered from July 5 to Aug. 15. The residential course period is from July 6 to Aug. 3.

While in Paris, the students will reside at the Foyer des Lyceennes. The four-weeks course provides study on French government and politics, the European Community, a field trip to Geneva, Strasbourg, and Luxembourg, and special French political, social, economic, and educational problems.

Fouraker Named Assistant Dean

Dr. Lawrence E. Fouraker, professor of economics, has been named assistant dean for research in the College of Business Administration. He succeeds the late Dr. George L. Leffler who held the position until his death earlier this year.

In the new position, Dr. Fouraker will represent the dean in the overall administration of the College's research programs and will be a member of the University Administrative Committee on Research.

C. M. Speidel Honored By LaVie Dedication

The 1958 La Vie, student yearbook, has been dedicated to Charles M. Speidel, varsity wrestling coach since 1927. Speidel, whose teams have enjoyed remarkable success, coached the only Eastern team to win the National Collegiate Athletic Association championships.

Gates To Retire With Emeritus Rank

Theodore J. Gates, professor of English composition, who has served the University for 42 years, will retire with emeritus rank on Jan. 1.

Named to the faculty in 1916 as instructor in English, Gates was named head of the department of English composition in 1936 following the retirement of A. Howry Espenshade.

Newman Named Ec. Head

Dr. Monroe Newman, associate professor of economics, has been named head of the department of economics to succeed Dr. Howard A. Cutler, who has been appointed assistant to the vice-president for academic affairs.

Dr. Newman, who received degrees from Antioch College and the University of Illinois, came to Penn State in 1955.

Roy Receives \$40,000 Grant For Clay Studies

Dr. Rustum Roy, professor of geochemistry, has received an award of \$40,000 from the Petroleum Research Fund of the American Chemical Society to continue studies on the detailed mineralogy and stability of synthetic analogues on clays and zeolitic minerals of importance to the petroleum industry.

Safety Committees Formed

Safety committees have been organized in the various colleges and departments with the following as chairmen:

Engineering and Architecture, W. N. Underwood; Chemistry and Physics, A. H. Holtzinger; Mineral Industries, M. E. Bell; Agriculture, G. H. Watrous, Jr.; Home Economics, D. E. Wiesendanger; Radiology, E. S. Kenney; Education, A. W. Vandermeer; General Extension, P. E. Benner; Physical Education, G. N. Thiel; Ordnance Research Lab, Arnold Addison; Liberal Arts, B. S. Oldsey; Business Administration, W. M. Hench; Physical Plant, C. A. Lamm; Food Service, W. N. Curley; Housing, J. F. Fishburn; Purchases, C. A. Prosser; Military, Capt. W. T. Fine.

Campus Trends . . .

Voluntary giving to 533 private American colleges and universities last year showed an increase of 62 per cent over 1955, not including massive grants by the Ford Foundation or 102 per cent if these grants are included. Land-grant colleges and universities, however, showed only a modest gain, with an increase of 19.4 per cent. Four private institutions got \$20 million for 1957, or more. Among land-grant colleges and state universities, the University of California was highest in 1957 with gifts of \$15,336,679. The universities of Michigan, Delaware, Ohio State, Wisconsin, Minnesota, North Carolina, Kansas, and the Georgia Institute of Technology all received more than \$3 million.

Report from the Registrar

WITHDRAWALS (Campus)

- 2 Clifford, Lawrence Edward, ME, May 5
- 2 Coccetti, Benedict C., COUN, May 5
- 2 Faessel, Darlene C., COUN, May 7
- Gr Finch, Ann, Gen., May 2
- 2 Flickinger, Robyn A., COUN, May 6
- 2 Ford, Rell B., B A, April 30
- 8 Hart, James Gilchrist, ECON, May 5
- 2 Herr, Patricia L., EL ED, May 7
- 4 James, Thomas Julian, CE, May 8
- 6 Kern, Jr., William W., CE, May 8
- 2 Laudenslager, Mary Marguerite, A L, May 1
- 2 Letz, Harry B., ARCH, May 2
- 4 Lockard, Robert E., CH E, May 8
- 2 McDonnell, Margaret Ann, COUN, May 1
- 4 Miller, Lewis R., PHYS, May 7
- 2 Momper, William Henry, EE, May 2
- 2 Moore, Carol E., EL ED, May 5
- 2 Newman, Mark Lewis, SECED, May 6
- 6 Porter, Margaret Ann, MU ED, May 5
- 2 Scarbrough, William Robert, PSY, May 9
- 1 Schnitzer, Mary Ann, H Ec, May 6
- 2 Smith, Robin William, AG ED, May 5
- 4 Steele, Charles S., A ART, May 6
- 2 Struble, Orma Belle, B A, May 1
- 6 Thalimer, Daniel Boyd, SECED, May 1
- 9 Thorne, Ralph W., SP, May 7
- 2 Walters, James D., D SC, May 5
- 2 Webb, William John, COUN, May 7
- 2 Cush, John Emmitt, Coun, May 14
- 2 Dick, Lyda A., Coun, May 12
- 2 Durkin, James K., Coun, May 10
- 2 Hawbaker, Daniel R., PhD, May 12
- 2 Hawblitz, Jeremy Heath, G M, May 12
- 2 Henninger, Janet C., El Ed, May 13
- 2 Kontos, James R., Coun, May 13
- Gr McCloskey, Richard H., B A, May 9
- 3 Maguire, Judith C., A L, May 13
- 6 Nason, John Roland, Coun, May 12
- 2 Newton, John Douglas, Coun, May 12
- 2 Polkosky, Douglas J., E E, May 12
- Gr Robertson, Thomas M., MNG E, May 14
- 8 Sawka, Nicholas J., A L, May 9
- 2 Sigel, Carolyn, El Ed, May 9
- 2 Smith, Edwin W., Coun, May 14
- 5 Susha, James N., B A, May 8
- 2 Tragesser, John N., Coun, May 15
- 2 Young, Ronald Alan, E E, May 12

(University Centers)

Bachelor Degree Program

- 2 Costello, Patricia Ann, PSY, May 1
- 2 Kurtz, Jay Banks, A L, May 5
- 4 Maykovich, Raymond John, B A, May 6
- 2 McCauley, William Daniel, B A, May 6
- 2 Raabe, Hershel Edwin, AG, May 23
- 2 Schneider, William Albert, E E, April 24
- 2 Stormer, Fred Anthony, Z & E, April 22
- 1 Neff, Leonard, B A, May 8

Associate Degree Program

- 1 Crumm, Jr., Chadwick Bruce, DDT, April 30
- 1 Gamrat, Steve John, ET, April 25
- 1 Henry, Thomas A., ET, April 30
- 1 Hosband, Robert Arthur, DDT, April 30
- 2 Kucharczuk, William T., 2 AG, April 28
- 2 Politz, Patrick M., ET, April 25
- 2 Stiffer, James S., DDT, April 28
- 2 Urey, James Bernard, ET, April 26
- 1 Hospodar, John Michael, E T, May 8

Change of Name

Dobrosky, Anthony Gilbert from Dobrosky, Tony G.
Himes, Charlotte Brown from Brown, Charlotte Jeanne
Davenport, Ronald Ross from Ross, Ronald
Moyer, Ann Lutz from Lutz, Ann Louise

G. K. Nelson To Head Department

Dr. G. Kenneth Nelson, professor of accounting, will become head of the department of accounting and business statistics effective July 1, to succeed Charles J. Rowland who has headed the department since 1953. Rowland has asked to be relieved of the administrative position but will continue as professor of accounting.

A graduate of the University of Pennsylvania, with advanced degrees from the University of Illinois, Dr. Nelson joined the Penn State faculty in 1950.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Dr. Abby Sutherland, Mrs. Behrend Honored

The newly-established Penn State Medal, for outstanding contributions to higher education in Pennsylvania, has been granted to Dr. Abby Sutherland, former head of what is now the Ogontz Center, and to Mary Brownell Behrend, widow of Ernst R. Behrend.

Dr. Sutherland, 87-year-old teacher and scholar, joined the faculty of Ogontz School in Philadelphia in 1902. In 1909 she became the school's principal and then purchased it. In 1917 she moved the school to its present location and continued active direction until 1950, when the school was turned over to Penn State as a center. In 1954, the Ogontz School Corporation established a trust fund with income for scholarships at the Center.

Mrs. Behrend, who was the wife of the late founder of the Hammermill Paper Company, presented the 400-acre Behrend Estate to Penn State in 1948.

Facilities Listed For International Students

Department heads who are seeking to aid international students to find accommodations to whom have been granted assistantships should contact the Office for International Student Affairs (Ext. 785) or the office of the Dean of Men (Ext. 506).

A partial survey was made by the University Christian Association of facilities in the borough available for international students and the information turned over to the above two offices.

Help Wanted

Information for the 1958-59 Faculty Directory will be requested of campus departments in August. Departments are therefore asked to maintain a file of directory information concerning those faculty and staff members who will not be available during August to fill out the information cards.

Senior Night Friday, Commencement Saturday

Commencement exercises will be held at 10:30 a.m. tomorrow on Beaver Field, weather permitting, with Sir Edwin Noel Plowden, chairman of the United Kingdom Atomic Energy Authority, as speaker.

In case of rain, two exercises will be held in Recreation Building, the first at 10:30 a.m. and the second at 2 p.m. Candidates for bachelor, master, and doctorate degrees, associate degrees, and commissions will attend the ceremony with the college in which their academic work was done.

A Senior Night program, combining the customary baccalaureate service and Class Night programs, will be held at 7:30 in Schwab Auditorium tonight. Recognition of the valedictorian, salutatorian, and other award winners will be given.

Faculty members planning to take part in the commencement procession will assemble in Waring Hall at 10:15 a.m. and proceed to Beaver Field at 10:20 a.m. In the event of rain, the faculty of the four colleges (Agriculture, Chemistry and Physics, Engineering and Architecture, and Mineral Industries) taking part in the morning ceremony will assemble at 10:15 a.m. under the south balcony in Recreation Building. Those in the afternoon procession will assemble at 1:45 p.m. at the same location.

Faculty marshals will meet at 9 a.m. on Beaver Field or Recreation Building, depending on the weather, to receive instructions. They will meet at 1 p.m. for the afternoon session if the exercises are held indoors.

Scholten Receives Fulbright Award

Dr. Robert Scholten, associate professor of geology, has been given a Fulbright award for the next academic year. He plans to teach and conduct research in geology at the University of Istanbul. He and his family will sail from the United States in September.

Interest Termed High For Standing Stone

Interest in the University's summer program of theatre arts at Standing Stone Playhouse is indicated by the fact that business and industrial groups, convention chairmen, and others have applied for blocks of seats for one or more of the eight weekly plays.

One industrial firm, Warren S. Smith points out, has bought out the theatre for one play and was demonstrating interest in still others. Smith, associate professor of theatre arts, is managing director of the Playhouse.

Season tickets, priced at \$13 for the eight-week season, will be made available to the public. Single admissions will be \$1.75 from Monday through Thursday, and \$2.25 for Friday and Saturday. Special season tickets will be available for students attending the six-weeks Main Summer Session and for special groups.

Russell G. Whaley, associate professor of theatre arts, has been named designer and production manager for the season.

The first play, under the direction of Max Fischer, will be Tennessee Williams' "The Glass Menagerie." It will begin June 23.

2450 Degrees To Be Granted Tomorrow

About 2450 degrees will be conferred tomorrow at Commencement, over 1800 of which will be bachelor's, 200 advanced, and 450 associate.

A tentative summary shows that nearly 400 students will receive bachelor's degrees in Engineering and Architecture, 280 in Business Administration, 280 in Liberal Arts, 240 in Education, 225 in Agriculture, 150 in Home Economics, 115 in Chemistry and Physics, 70 in Mineral Industries, and 40 in Physical Education and Athletics.

Among advanced degrees, approximately 45 doctorates and 155 master's will be granted.

Senate Minutes

MINUTES OF THE MEETING (of May 29, 1958)

The University Senate met at 3:18 p.m. on Thursday, May 29, 1958 in the Assembly Room of the HUB with President Eric A. Walker presiding. The minutes of the May 1 meeting were approved as printed in the Faculty Bulletin for May 9, 1958. 155 senators signed the roll.

Communications From University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: H. O. Triebold (P. M. Althouse), G. R. Kean (J. L. Gobble), R. H. Wherry (R. D. Pashek), H. E. Goodwin (J. W. Markham), W. C. Bramble (W. E. White), F. G. Brickwedde (Wayne Webb), E. B. vanOrmer (J. H. Britton), C. R. Carpenter (R. E. Stover), E. W. Miller (G. F. Deasy), L. S. Roudiez (W. S. Smith), D. C. Jones (R. G. Ehman), R. C. Maloney (L. D. Skinner), and G. W. Brindley (A. W. Taylor).

New Senator

C. R. Kinney was elected from the College of Mineral Industries to replace E. J. Moore for the 1958-1959 term.

Committee Membership

A letter from R. G. Bernreuter, Chairman of the Senate Committee on Committees, listed the members of the standing committees of the Senate for 1958-1959 as approved by President Walker. Copies of this list will be mailed to the senators.

REPORTS OF STANDING COMMITTEES

D. H. McKinley, Chairman of the SENATE COMMITTEE ON ADMISSIONS, presented the report which had been distributed with the agenda as Appendix "A" and moved its adoption. The motion was seconded and passed as follows:

Beginning with the Fall Semester of 1961, all curriculums of the College of Agriculture shall require that entering freshmen have a minimum of one year of algebra and one year of Plane Geometry.

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed in three sections. Section I was distributed with the agenda as Appendix "B", and Sections II and III followed. He made the following corrections to the report:

On page 4, of Section I,

C. E. 564, Hydraulic Engineering Design, is to be reactivated.

On pages 10 and 11, of Section I,

Art 29, Delete the change in practicum hours.

Art 30, Delete the change in practicum hours.

On page 10, of Section II,

The new course Soc 301 is to be withdrawn.

Mr. Shelley then moved the adoption of the report as corrected. The motion was seconded and passed. The report is on file in the office of the secretary.

A. W. Hutchison, Chairman of the SENATE COMMITTEE ON EXTENSION POLICY, presented the report which had been distributed with the agenda as Appendix "D" which contained three recommendations. He asked that the recommendations be acted on separately. He moved the adoption of Recommendation I as follows:

1. That Rules B-1 and B-2 be revised to read as follows:

B-1. Resident instruction shall include:
a. All instruction on the University Park Campus in courses approved by the University Senate for college credit.

b. All instruction at officially designated Pennsylvania State University Centers in courses numbered in the series 1-399 or 800-899.

c. All field work such as field trips, internships, practice-teaching, and the like when directly supervised by a member of the University faculty.

B-2. Extension instruction shall include:

All instruction, including correspondence, given by The Pennsylvania State University which is not specifically designated as resident instruction.

2. That Rule B-3 be deleted. (See Recommendation II)

3. That Rule B-4 be transferred to another section of the Regulations, probably to the P or L rules.

The motion was seconded and passed.

Mr. Hutchison moved adoption of Recommendation II as follows:

That Rules E-3, E-4, E-5, E-6, and L-5 be deleted and replaced by the following new E rules:

a. A candidate for a bachelor's degree shall earn at least 60 of the last 75 credits required in his curriculum by enrollment in courses on the University Park Campus or in supervised field work, as defined in Rules B-1a and B-1c. The remainder of the credits required in his curriculum may be earned by resident instruction, by extension instruction, or by examination at The Pennsylvania State University; by transfer from another approved institution; or by a combination of these.

b. A student enrolled for courses on the University Park Campus or at one of the Pennsylvania State University Centers may with the permission of his Dean or the Administrative Head respectively, register for not more than 6 credits of correspondence and extension courses, in any combination, in any one semester provided his total load including correspondence and extension does not exceed the load permitted him as a regular student in his curriculum.

c. A candidate for a bachelor's degree shall earn the last 60 credits required for his degree within a total elapsed time of four calendar years, except that an extension of time shall be granted for intervening military service.

d. Any College may make more restrictive limitations in regard to the above rules (Recommendations II, a, b, and c).

In the discussion on this motion, T. C. Benton moved that the recommendation be amended by deleting section "b" and substituting the last sentence of the present Rule E-6 for the proposed "b". The motion was seconded and lost.

It was moved that "c" be amended to include the words and 'one summer session' after the words "four calendar years". The motion was seconded and passed. Section "c" will not read:

c. A candidate for a bachelor's degree shall earn the last 60 credits required for his degree within a total elapsed time of four calendar years and one summer session, except that an extension of time shall be granted for intervening military service.

There was further discussion on amending Recommendation II to take care of exceptional students but it was explained by the Committee that the rule was written for the majority of students, and that individual cases could be treated as special cases. The motion to adopt Recommendation II as amended was passed.

Mr. Hutchison then moved adoption of Recommendation III as follows:

It is recommended that the words 'residence' and 'resident' be deleted or replaced by suitable interpretive words or phrases in Rules A-3, A-5, E-1 preamble, E-7, E-9, and P-19 in "Senate Regulations for Undergraduate Students" and in those sections of the University Catalog, Summer Sessions Bulletin, and other publications based on these rules.

It is recommended that the rules cited be edited because of their use of undefined terms such as "continuous residence," "being in residence," and "resident study" which lead to ambiguity. A survey of current interpretation reveals a wide range in usage. Thus in Rule A-3 "residence" apparently means "enrollment" whereas in Rule E-9 it has a very restricted meaning.

A question was raised as to the time when these changes go into effect. Mr. Hutchison stated that these regulations are effective for students entering the University in the Fall Semester, 1958, and subsequently. The motion to adopt Recommendation III was seconded and passed. The entire report is on file in the office of the secretary.

(Note: The minutes of the Senate meeting of May 29, 1958 will be concluded in the June 13 issue of Faculty Bulletin.)

Brewster To Open Fall Faculty Lunch Club Program

The first meeting in the fall semester of the Faculty Luncheon Club will be held on Sept. 22 in dining room "A" of the Hetzel Union Building.

Dr. R. Wallace Brewster, professor of political science, will speak on "The Problem of the Executive Power in France" with a first hand report based on his experience this summer in France.

ANNUAL REPORT SENATE REPRESENTATIVE ON BOARD OF PUBLICATIONS

During the past year the status of the Board of Publications has been under analysis and consideration by Student Encampment, All-University Cabinet and members of the board itself. In October, Cabinet endorsed a recommendation of the "encampment group" that the existing Board of Publications be expanded to include the addition of Radio Station WDFM and any other campus communications media not then holding Board membership.

Near the close of the academic year the chairman of the Board of Publications, to whom All-University Cabinet had assigned disposal of their recommendations, reported to your representative that the "encampment group" in re-union had reversed its opinion of last fall and had agreed that because of the highly divergent nature of the Daily Collegian, WDFM, LaVie, and Froth, these campus-wide media have too little in common to justify continued existence of either the present publications board or of an expanded All-University communications board. This opinion, he stated, is shared by the present members of the Board, a number of whom were also members of the "encampment group."

However, the chairman stated that because of community of interest the group feels that there is a need for a publications board or committee to serve the separate college publications such as Home Ec-News and Views, Biz-Ad Bulletin, The Engineer, The Penn State Farmer, etc. He stated that with the growth of the University the number and scope of these college publications would increase and that they have many problems in common. He also stated that this idea had been referred to the Inter-College Council Board for consideration. The inference of these student conclusions seems to be that the present All-University Board of Publications should be discontinued and that it be replaced by an "inter-college" publications board or committee.

Since action of the nature inferred would require changes in Section Y of the Senate Regulations for Undergraduate Students and since it is far from clear as to whether or not such a change is in the best interests of both the Senate and the undergraduate communications media it is recommended by your representative that the entire matter be referred to the Senate Committee on Student Affairs for further study and that in turn this committee provide for further study of the problem by the appropriate student leaders at the coming Fall student encampment.

In connection with this report it should be noted that during the past year the chairman of the Board of Publications called no formal meetings of the Board and that the opinions of board members regarding the official continuance of the Board were obtained by him through informal contacts with these individuals in encampment meetings and elsewhere. This lack of formal activity by the Board was attributed by the chairman, to a lack of common problems on the part of member publications.

Respectfully submitted,
Donald W. Davis

May 25, 1958

ANNUAL REPORT SENATE COMMITTEE ON ACADEMIC STANDARDS

1. The Committee investigated a number of topics related to the level of academic standards in this institution. The following list is not exhaustive:

- the reaction of the various colleges to the new P rules;
- the characteristics of the 400 course;
- a review of the Committee's experience with reinstatement cases;
- a survey of the agencies in the University that collect and analyze data reflecting the level of academic standards;
- the need for an honors program;
- the implied level of standards in the Long-Range Report.

Results of these studies were sent to the office of the Chairman of the Senate.

2. The Committee received 272 petitions for reinstatement and for Waiver of Senate rules. A majority of these cases were handled by a sub-committee consisting of the Chairman, the Vice-Chairman, and the representative from the college involved. 225 of the petitions were approved, 47 were denied.

Respectfully submitted,
Lawrence E. Fouraker
Chairman

Items of Interest

Dr. Norman Davids, Sudhir Kumar, and Dr. L. W. Hu, members of the staff of the department of engineering mechanics will present papers at the Third U. S. National Congress of Applied Mechanics at Brown University, June 11-14. Dr. Joseph Marin, head of the department, will serve as chairman of one session.

Hugh G. Pyle, in charge of the Division of Informal Instruction, was cited by the Pennsylvania Welfare Forum during its quarterly board meeting recently. The resolution cited his leadership in the Forum, including two terms as president.

Dr. Rustum Roy, professor of geochemistry, addressed the May meeting of the Earth Science Colloquium at the Massachusetts Institute of Technology on "Polymorphism and Isomorphism in the Silica Minerals" and visited with research groups at M.I.T. and the Norton Co. who have made some of the most important contributions in the field.

Dr. Philip S. Skell, associate professor of chemistry, has received a one-year, \$12,000, grant from the U. S. Army Office of Ordnance Research to support his work on "Reactivity of Methylenes."

George L. Theuring, professor of industrial engineering, recently installed a chapter of Alpha Pi Mu, industrial engineering honor society, at the University of Pittsburgh.

Dr. R. Hadly Waters, professor of transportation, talked on "Fares, Please," at a meeting of the Rotary Club of Altoona. The talk included a listing of a number of "transportation firsts" in Pennsylvania.

Edwin J. Anderson, professor of apiculture, is the author of two articles appearing in recent publications, including a description of a honey bottling tank in the "American Bee Journal" and a second on "Pollination of Crown Vetch" in the May issue of "Gleanings in Bee Culture."

Dr. Charles G. Haas, Jr., associate professor of chemistry, has been awarded the DuPont Summer Grant for 1958 to enable him to continue his studeis in inorganic chemistry.

Dr. Everett Alderman, associate professor of psychology and member of the management training staff, addressed the Lumberman's Who's Who Club, composed of lumber dealers of Western Pennsylvania.

D. R. Mitchell, acting dean of the College of Mineral Industries, and Dr. H. B. Charmbury, head of the department of mineral preparation, are authors of a paper titled "Modern Trends in Fine Coal Cleaning in the United States" which Dr. Charmbury will present at the Third International Coal Preparation Congress at Liege, Belgium, on June 23-28.

Ralph H. Wherry, professor of insurance and head of the department of commerce, has been appointed to the Committee on Insurance Company Fellowships for Insurance Teachers of the American Association of University Teachers.

George M. Dusenberre, professor of mechanical engineering, is the author of two papers accepted for presentation at the National Conference on Heat Transfer of the American Society of Mechanical Engineers and American Institute of Chemical Engineers to be held in Chicago Aug. 18-21.

Dr. Leonard F. Herzog, assistant professor of geophysics, is co-author of an article, "Sediment Age Determination by Rb/Sr Analysis of Glauconite" in recent issue of the Bulletin of American Association of Petroleum Geologists. The article describes a promising method for the direct radioactivity dating of sedimentary rocks older than 30 million years.

Viktor Lowenfeld, head of the department of art education, delivered the main address at the annual convention of the Massachusetts Art Education Association recently. He spoke on "Art Education as a Promoter of Creative Thought."

Dr. Luke T. Lee, assistant professor of political science, has completed a law codification project on "Consular Exemptions from Customs Duties" for the United Nations International Law Commission. Dr. Lee recently presented a paper on "Comprehensive Government: New Developments in the Far East," at a recent Pennsylvania Political Science and Public Administration convention in Harrisburg.

Mary Brown Allgood, associate professor of home equipment and chairman of the division of commercial consumer services, will teach and conduct a workshop at the School of Home Economics, Simmons College, from June 23 to July 18.

Dr. William M. Smith, Jr., professor of family relationships, served as coordinator of a workshop at Arizona State College this week. The workshop included home economics and vocational agriculture teachers of Arizona.

Dr. K. R. Smith Chosen For Superior Teaching Award

Dr. Kinsley R. Smith, professor of psychology, will receive the new Sigma Tau Award for Superior Teaching at Commencement exercises on June 7.

The award, including \$1000 in cash, has been established "to recognize out-



Dr. K. R. Smith

standing service, encourage superior teaching, and advance the cause of higher education generally."

Kappa chapter of Sigma Tau, national engineering honor society, earlier presented a check for \$500 to the University to reward superior teaching and the gift was augmented by a like amount from alumni and other sources.

Only full-time faculty members who had taught at Penn State for 10 years or more were eligible for consideration for the award. Dr. Smith has been a member of the faculty since 1936. His citation recognizes his "devoted service as a conscientious and outstanding member of the teaching faculty."

Robert E. Dawson, administrative head of Penn State's Scranton Center, was honored at a dinner in May by the "Minute Men" of the Scranton Chamber of Commerce in recognition of his leadership in the activities of the Chamber.

A painting titled "Altar", by Dr. George Pappas, assistant professor of art and art education, has been selected to be shown at the Boston Arts Festival. It is one of 250 paintings chosen from among 3,000 submitted.

Dr. John F. Corso, professor of psychology, has been appointed to serve a three-year term on the Technical Committee on Musical Acoustics of the Acoustical Society of America.

Calendar

Friday, June 6

Senior Night program, 7:30 p.m., Schwab Auditorium. Awarding of honors, baccalaureate service, and talk by Dr. Howard A. Cutler, coordinator of the program in General Education.

Saturday, June 7

Commencement Program, 10:30 a.m., Beaver Field. In case of rain, 10:30 a.m. and 2 p.m., Recreation Building.

Sunday, June 8

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. Charles E. Minneman, assistant University chaplain, in charge.

Monday, June 9

Registration for Intersession, 8 a.m. to 12 noon, Recreation Building.

Thursday, June 12

Alumni Reunion begins with registration and informal reception on Terrace, Hetzel Union Building. Also colored slide presentation by Michael Lynch.

Friday, June 13

Alumni Institute program, beginning at 10:30 a.m., with panel discussion of "Creative Thinking: The Seed, The Soil, The Climate, The Flower." Afternoon sessions at 2 p.m. and 3:30 p.m.

Life And Culture Institute Planned For Campus June 23

Dr. S. K. Stevens, former member of the faculty and now executive director of the Pennsylvania Historical and Museum Commission, will be one of the featured speakers during the Institute on Pennsylvania Life and Culture, June 23-28 on Campus.

Registration for the Institute will be held in McElwain Hall and the various sessions in Boucke Building.

Fifteen members of the faculty and staff will participate in the Institute, which will be built around the theme, "Rediscovering Our Resources." The program is intended to encourage better understanding of what Pennsylvanians have in terms of source materials and to promote extensive use of the materials.

The members of the faculty who will participate will include Dr. Frederick R. Matson, Dr. Ben Euwema, Dr. Harold E. Dickson, Milton S. Osborne, Ralph W. McComb, Dr. Philip A. Shelley, William L. Werner.

Dr. Albert F. Buffington, Walter E. Boyer, Dr. Philip S. Klein, Dr. Maurice A. Mook, Dr. George F. Johnson, Thurston B. Reeves, Charles W. Mann, and Wayne Bechdel.

The Institute will be of special interest to adult education groups, librarians, historians, high school and university teachers, ethnic societies, and laymen wishing to promote better collaboration between historical societies, local libraries, and museums.

Faculty and staff members who plan to attend are urged to call in advanced registrations to the Extension Conference Center. There is a \$5 registration fee.

Additional Leaves Announced

Robert M. Pockrass, assistant professor of journalism, will return to Leland Stanford University to complete work on his doctor of philosophy degree in the field of mass communications research and will serve on the faculty there this fall. He has been granted a leave of absence from Sept. 1 to Jan. 31.

* * *

Dr. Edward D. Bellis, assistant professor of zoology, will make an ecological study of the region in which the Savannah River plant of the U. S. Atomic Energy Commission is located in southwestern South Carolina. He will survey the plant and animal life and other features of the natural environment of an area of about 250,000 acres, in a study he initiated last year as an instructor in zoology at the University of Georgia. He will be on leave from June 16 to Aug. 31.

* * *

Dr. Robert P. Taft, professor of chemistry, will study at Harvard University during the fall semester under a Guggenheim Fellowship in a research study titled, "Studies on the Effect of Molecular Structure on Reactivity" and also plans to pursue advanced studies in the field of molecular structure and reaction mechanisms. He will be on leave for the fall semester.

* * *

Dr. Vernon Aspaturian, associate professor of political science, has been granted a leave of absence for the next academic year to serve as a visiting professor of International Relations at the Graduate Institute of International Studies at the University of Geneva, Geneva, Switzerland. He will give a seminar on "Soviet Diplomacy," participate in a research program on diplomacy, and work on his book, "Ideology and National Interest in Soviet Diplomacy." He has been working on the book under a grant from the Rockefeller Foundation.

* * *

Dr. C. Drew Stahl, associate professor of petroleum and natural gas engineering, will spend the summer months making reservoir engineering studies for Socony Mobil de Venezuela, with headquarters in Caracas, Venezuela, from where he will visit field installations for the company. He has been granted a leave from June 1 to July 31.

Interpreters Needed For Home Economics Congress

French and German interpreters are needed in July in connection with a tour of 250 delegates from 19 countries who will come to Penn State prior to the International Home Economics Congress. The Congress will be held at the University of Maryland on July 28-Aug. 2 and the delegates will visit Penn State July 22-25.

Anyone interested in interpreting for some of these delegates for an hour or two on July 23 and 24 are asked to contact Dr. Hazel Hatcher, professor of home economics education, as Ext. 2240.

Alumni Reunion, Institute Begins Thursday Evening

The annual Alumni Reunion and Institute program begins Thursday, June 12 with an informal reception at the Hetzel Union Building and the showing of color slides by Michael Lynch, at 8 p.m.

Feature of the Institute program on Friday will be a panel discussion at 10:30 a.m. on the subject, "Creative Thinking: The Seed, The Soil, The Climate, The Flower." Members of the panel will include Viktor Lowenfeld, professor of art education, Dr. E. J. Nichols, professor of English composition, Dr. H. K. Schilling, dean of the Graduate School, and Dr. Amos J. Shaler, head of the department of metallurgy.

Faculty members who will present lecture sessions during the Institute include: Dr. A. L. Rodgers, associate professor of geography; R. P. Meahl, professor of ornamental horticulture; Dr. A. K. Blackadar, associate professor of meteorology; R. H. Wherry, professor of insurance; Dr. J. H. Britton, associate professor of child development and family relations; Margaret Q. Batjer, associate professor of foods and nutrition.

Other speakers are: Dr. Kent Forster, professor of European history; Dr. A. O. Lewis, Jr., associate professor of English literature; Forrest Remick, research associate and reactor supervisor; Dr. J. A. Fitz, assistant professor of education; Dr. F. M. Coombs, professor of physical education; and W. H. Powers, director of arts and sciences extension.

Friday evening, alumni of classes before 1909 will attend a dinner at the Nittany Lion Inn at 6:30 p.m. and several classes will hold informal parties at 8:30 p.m.

On Saturday, the All-Class Luncheon at 12:30 p.m. in Recreation Building, President Eric A. Walker's "State of the University" talk in Schwab Auditorium at 2:30 p.m., and various class banquets at 6:30 p.m. will be features. An all-class square dance will be held in the HUB ballroom at 9 p.m.

In addition to President Walker's talk, the program in Schwab Auditorium on Saturday afternoon will include the presentation of the 1958 Distinguished Alumni Awards. Woman of the Year award, and the presentation of the 1958 Alumni Gift to the University.

Other events on the schedule include the annual alumni golf tournament, campus bus tours, and the alumni parade from Recreation Building to Schwab Auditorium.

Chapel Service Hour Changed

Chapel Service for Intersession and Main Summer Session will be held each Sunday at 9 a.m. in Helen Eakin Eisenhower Chapel instead of in Schwab Auditorium at 10:45 a.m. Members of the staff of the Office of the University Chaplain and faculty members will participate in these services.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Trustees Approve Changes In Status

The following changes of status, effective July 1, were approved by the Board of Trustees last weekend:

Associate professor to professor: Dr. Samuel B. Guss, veterinary science extension; Dr. John F. Hall, psychology; Dr. Robert F. Hutton, farm management; Dr. Lois B. Hyslop, Romance languages; and A. Pauline Locklin, English.

Assistant professor to associate professor: Edward Abramson, sociology; Dr. Sidney A. Bowhill, electrical engineering; Dr. Joseph L. Brown, English composition, General Extension; Dr. Robert S. Brubaker, speech science; Dr. Howard L. Carnahan, agronomy, Pasture Research Laboratory; Yar G. Chomicky, art education.

Edwin H. Dale, agricultural extension; Dr. John A. Fitz, education; Dr. Roland L. Hicks, journalism; Dr. Werner J. Mueller, poultry husbandry; Dr. Yoshiharu Okaya, physics; Dexter N. Putnam, dairy science extension; Dr. William H. Ross, electrical engineering; Dr. Alev J. Slivinske, psychology; Dr. Elizabeth W. Smith, botany and zoology, General Extension; Dr. Edward C. Thaden, European history.

Associate county agricultural agent to county agricultural agent: Fred H. Attinger, Venango County.

Assistant county agricultural agent to county agricultural agent: Robert C. Church, Homer F. Mazer, Garner P. Mitchell, Peter H. B. Norton, John L. Rosenberger, Russell C. Seward, John Z. Shearer.

Associate extension home economist to extension home economist: Janet A. Simpson and Ruth W. Smith.

Assistant extension home economist to associate extension home economist: Ruth F. Ball and Martha M. Martin.

This is the final issue of *Faculty Bulletin* for the Spring semester. The next issue will appear Sept. 12.

Dr. Bernreuter Named Dean Of Admissions

Dr. Robert G. Bernreuter will assume the duties of Dean of Admissions and Registrar on July 1. He will continue as Special Assistant to the President for Student Affairs.

He succeeds Dr. C. O. Williams, who was previously named Assistant to the President for Special Studies.

Dr. Bernreuter, who has been director of the Division of Counseling, will be succeeded in that position by Dr. Donald H. Ford, who will be acting director. Dr. Ford was formerly assistant director.

As a member of the staff of the President, Dr. Bernreuter will serve as coordinator of the services now rendered by the Dean of Men, Dean of Women, University Health Service, Division of Counseling, Associate Student Affairs, Placement and Scholarships, International Student Affairs and Religious Affairs.

Six Trustees Re-elected, Senator Maddigan Chosen

Three trustees were re-elected and State Senator Albert E. Maddigan, of Towanda, was elected to replace Furman H. Gyger, Jr., in balloting by representatives of agricultural and industrial societies last week.

Senator Maddigan and J. Lewis Williams, Uniontown, were chosen by agricultural societies. Industrial societies elected Charles E. Oakes and Roger W. Rowland.

Alumni reelected three members: George H. Deike, Pittsburgh, James B. Long, Blue Bell, and William D. Harkins, Philadelphia. They will serve three-year terms.

Donovan, Fuller Named To Posts

George L. Donovan has been named coordinator of student activities and William Fuller as manager of the Hetzel Union Building and Associated Student Activities, effective July 1.

Playhouse Opens June 23 With Glass Menagerie

Mateer Playhouse is the new name of the summer theatre formerly known as Standing Stone Playhouse.

The name honors M. C. Mateer, State College businessman and his wife, Laura, who gave \$10,000 to maintain a summer theatre.

The 1958 program at the Playhouse begins June 23 with Tennessee Williams' "Glass Menagerie." It will be directed by Max Fischer. To follow, in order, are Agatha Christie's "The Mouse Trap," Benn W. Levy's "Clutterbuck," Samuel Taylor's "The Happy Time," Shaw's "Major Barbara," William Inge's "Glory in the Flower" and other one act plays, Kaufman and Ferber's "The Royal Family of Broadway," and Enid Bagnold's "The Chalk Garden."

Kelly Yeaton, associate professor of theatre arts, will direct "Clutterbuck" and "The Royal Family," and Fischer will direct the other productions.

Six professional actors will perform, including Esther Benson, Charlotte Jones, David Frank, and Laurence Kabat, who have appeared at the Playhouse in previous years, and newcomers Leon Stevens and LaVonne Sheridan.

Season tickets for the eight weeks are priced at \$13 and may be obtained at Schwab Auditorium. Monday through Thursday single tickets are \$1.75 and Friday and Saturday are priced at \$2.25. Reservations are accepted at The Playhouse (North 7-2552), at the State College Hotel (ADams 8-6733), and at the Book and Record Shop in Altoona (Windsor 3-4190). Special prices are available for groups and summer sessions students.

Lang Succeeds Baker

Chauncey P. Lang, assistant 4-H leader in charge of older youth work, will become 4-H leader on July 1, succeeding Allen L. Baker, who is retiring.

Lang joined the staff in 1928 as assistant 4-H leader and has headed the Senior Extension Club program for some 4,000 older rural youths since 1936.

Senate Minutes

MEETING OF MAY 29, 1958

(Continued from June 6 Faculty Bulletin)

J. A. Sauer, Chairman of the SENATE COMMITTEE ON RULES, presented the report which had been distributed with the agenda as Appendix "E". Under item one, Mr. Sauer reported the Committee's response to a letter written by E. H. Freund to President Walker which had been referred to the Rules Committee. It is now possible for staff members from the Centers and from Agricultural and Home Economics Extension to be elected as members of the Senate. One from each category is currently a member.

Mr. Sauer then presented item two, Concerning Regulation Pertaining to the Use of Student Automobiles:

The Constitution of the Senate declares that the Senate shall be "the sole legislative body on all questions that pertain to the educational interests of the University" . . . and one of the matters referred to specifically is Item 8 — "Regulations affecting students". It thus seems clear that the University Senate should establish general policy with regard to student affairs but that administration of these matters should be properly the concern of the University Administration.

One of the matters on which the Senate has in the past laid down specific rules and regulations rather than general policy seems to be on the use of student automobiles. These regulations are included under the section entitled U-rules of the Regulations Affecting Undergraduate Students. However there are also other University regulations such as the rule that "Freshmen are not permitted to drive automobiles" which have been established by the Administration and which do not appear in the Senate Regulations for Undergraduate Students.

To clarify this situation the Rules Committee recommends to the Senate that the following introductory sentences precede the section in the Regulations for Undergraduate Students entitled "Automobiles of Students";

The use of automobiles by students shall be consistent with the best interests of their educational program and regulations pertaining thereto shall be established and enforced by the appropriate administrative officials as designated by the President of the University. The regulations in effect, as of September 1, 1958, are:

Mr. Sauer moved the adoption of this recommendation. The motion was seconded and passed.

E. H. Freund moved that the two recommendations which were presented by the Special Committee on Organization and Operation of the Senate be referred back to that Committee for study and report to the Senate. Those recommendations were:

That Penn State Centers should have the opportunity to participate in making nominations for elected Senate positions, hold office and take part in college elections and, that the large group of Agricultural and Home Economics Extension representatives should also have some representation in the Senate.

The motion was seconded and defeated.

F. M. Coombs, Chairman of the SENATE COMMITTEE ON CALENDAR, presented the report which had been distributed with the agenda as Appendix "F". After an interpretation by the parliamentarian, on the legality of using written ballots, Mr. Coombs moved that written ballots be used with reference to the calendar. The motion was seconded and passed. After some discussion on the proposed calendar plans it was moved that the motion to use written ballots be laid on the table. The motion was seconded and passed.

A. W. Hutchison moved that we adopt a calendar of two semesters plus summer sessions. The motion was seconded and passed. B. A. Whisler moved that we define a semester as being the present length and that the Summer Sessions program of 12 weeks be operated in periods of 3 weeks, 6 weeks, 3 weeks, as at present, and concurrently in two new sessions of 6 weeks each. The motion was seconded and passed.

Mr. Coombs moved that the Calendar Committee be authorized to prepare a calendar plan that would end the fall semester classes before the Christmas vacation. The motion was seconded and passed.

M. E. John, Chairman of the SPECIAL COMMITTEE ON ORGANIZATION AND OPERATION OF THE UNIVERSITY SENATE, presented the report which had been distributed with the agenda as Appendix "C" and asked that the items be acted upon separately.

He moved adoption of the recommendation in paragraph two, page one, as follows: (Changes in By-Laws, Article II, Section 1(d) and Section 2(d))

It is recommended that the title of the Committee on Calendar be changed to Calendar and Class Schedule and that its duties be broadened to include policies concerning class schedules. The statement of duties would then read, "The Committee on Calendar and Class Schedule shall recommend to the Senate policies concerning the calendar and class schedules and shall study such matters of policy relating to calendar and class schedules as may be referred to it.

The motion was seconded and passed.

Mr. John then moved adoption of the recommendation in paragraph three, page one, as follows: (By-Laws, Article II, Section 2(e))

It is recommended that the description of the duties of the Committee on Committees be expanded by adding the following: It is recommended that the Committee confer with the chairman of each standing committee concerning the personnel of the committee before giving their recommendation to the President of the University. The Committee on Committees shall also bring before the Senate recommendations as to changes in committee structure and function.

Joseph Jordan moved to amend the recommendation of the Committee by substituting the following for the first sentence of the recommendation:

Before giving their recommendation to the President, the Committee on Committees shall: (a) Explore the preferences of each senator as to what committee duties he would like; (b) Confer with the chairman of each standing committee.

The motion on the amendment was seconded and passed. After discussion the motion to adopt the recommendation as amended was passed. The By-Laws, Article II, Section 2(e) now reads:

It shall be the duty of the Committee on Committees to confer with the President of the University in the appointment of the standing committees and the designation of their chairman, and vice-chairman, and to assist the President in the filling of vacancies in the standing committees. The Committee shall explore the preferences of each senator as to what committee duties he would like, and confer with the chairman of each standing committee concerning the personnel of the committee before giving their recommendation to the President of the University. The Committee on Committees shall also bring before the Senate recommendations as to changes in committee structure and function.

Mr. John moved adoption of the recommendation in paragraph one, page two. (By-Laws, Article II, Section 2(k))

It is recommended that the duties of the Committee on Rules be changed to the following:

It shall be the duty of the Committee on Rules to review all rules in order to advise on conflicts with existing rules, and to recommend to the appropriate committee, or to the Senate as a whole if an appropriate committee does not exist, needed additions or changes in rules. They shall codify and publish the rules from time to time.

The motion was seconded. J. A. Sauer, Chairman of the Committee on Rules, objected to the proposed changes and explained why he thought the Committee on Rules should have the power to make recommendations directly to the Senate. The motion was passed.

Mr. John moved adoption of the recommendation in paragraph two, page two, to add a new section following By-Laws, Article II, Section 3 to read as follows:

A member cannot serve as chairman of a standing committee for more than four consecutive years. A member may not serve as a member of a standing committee for more than six consecutive years, except that a Chairman of the Committee who has served in that capacity for less than four years may continue on the Committee for as long as he is chairman.

The motion was seconded and after considerable discussion was passed. The new section will be Section 4 and the remaining sections will be renumbered.

Mr. John moved adoption of the recommendation in paragraph three, page two, by adding to the By-Laws, Article V, Section 7, the following sentence:

All suggestions for modification of committee reports relating to policy should be submitted in writing to the committee chairman one week prior to the Senate meeting at which it will be voted upon.

The motion was seconded and after considerable discussion was defeated.

Mr. John moved adoption of the recommendation in paragraph four, page two, to

add a new section, By-Laws, Article V, Section 8, to read as follows:

All matters of new business shall be considered by a standing or special committee of the Senate before being presented to the Senate for final action.

The motion was seconded. K. R. Beittel proposed that the motion be amended by adding the following sentence:

If within two Senate Meetings from the time of referral a Senate Committee does not report on an item of new business, any senator may present it directly for final action by the Senate.

The motion to amend the recommendation was seconded and defeated. The motion on the recommendation was defeated.

Mr. John moved adoption of the recommendation in the last paragraph on page two to eliminate Article I, Section 2, of the Constitution. The Article now reads:

In the event that a member of the Senate is unable to attend a meeting of the Senate he may designate another member of the University staff not a member of the Senate, to represent him at that meeting. In such a case the substitute shall present to the secretary of the Senate at the meeting a written notice of the substitution. The motion was seconded and defeated.

Mr. John then moved adoption of paragraph one, page one. (Refers to By-Laws, Article II, Section 2(a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (l) (m))

It is recommended that the duties of the following Standing Committees remain unchanged: Academic Standards, Admissions, Athletics, Courses of Study, Educational Policy, Extension Policy, Military Instruction, Research Policy, Scholarships and Awards, and Student Affairs.

The motion was seconded. J. A. Fox moved to amend the recommendation by eliminating from the list as recommended, the Committee on Scholarships and Awards. The motion to amend was seconded and passed.

Mr. Fox then moved adoption of an amendment to the By-Laws:

Article II, Section 1(1)

Change the name of this committee to —Scholarships and Awards Policy Committee.

Expand committee membership to include one representative of the Graduate School.

Article II, Section 2(1)

Change the description of the duties to read:

The Committee on Scholarships and Awards Policy shall make recommendations regarding scholarship, award and honors programs and their implementation.

The motion to amend was seconded and after considerable discussion was defeated. The motion on the recommendation of the Committee was passed.

MEMBERSHIP ON STANDING COMMITTEES

1958-59

ACADEMIC STANDARDS: A. D. Brickman, man, Chairman; J. S. Bowman, Vice-Chairman; R. M. Conger; H. M. Davison; W. S. Decker; J. R. Hayes; H. Neuberger; J. Jeanne Riebel; W. H. Wilson; R. G. Bernreuter.

ATHLETICS: N. M. McGeary, Chairman; K. R. Smith, Vice-Chairman; H. H. Chisman; H. Fishburn.

COMMITTEES: K. L. Holderman, Chairman; C. I. Noll, Vice-Chairman; E. C. Bischoff; P. W. Bixby; Dorothy Houghton; D. V. Josephson; J. W. Markham; C. A. Nelson; J. D. Ridge.

ADMISSIONS: D. H. McKinley, Chairman; D. G. Thevaos, Vice-Chairman; B. G. Anderson; D. E. Hardenbergh; Irene Harms; E. J. Nichols; R. G. Stoner; D. B. Swegan; H. D. Wright; The Registrar.

CALENDAR: F. M. Coombs, Chairman; B. A. Whisler, Vice-Chairman; L. P. Guest; F. W. Peikert; A. J. Shaler; P. C. Weaver, ex-officio; The Scheduling Officer, ex-officio; John Bott; Patricia A. O'Neill.

COURSES OF STUDY: P. A. Shelley, Chairman; C. W. Pierce, Vice-Chairman; Ruth W. Ayres; G. K. Gillan; Marie Haidt; J. H. Jones; E. T. McDonald; E. W. Miller; R. B. Saylor; L. E. Dennis, ex-officio; H. K. Schilling, ex-officio.

EDUCATIONAL POLICY: R. E. Larson, Chairman; J. D. Lawther, Vice-Chairman; (Fall Semester, G. N. Thiel); H. A. Cutler; W. W. Miller; Winona L. Morgan; R. K. Murray; T. S. Oakwood; J. R. Rackley; J. J. Schanz, Jr.; M. A. Williamson; L. E. Dennis, ex-officio.

MILITARY INSTRUCTION: E. R. Queer, Chairman; J. G. Rayback, Vice-Chairman; A. K. Blackadar; J. A. Dixon; Gilma M. Olson; R. D. Pashek; R. B. Patrick; C. M. Speidel; H. B. Sprague; H. R. Glenn, ex-officio; A. W. Kogstad, ex-officio; O. H. Rigley, Jr., ex-officio; J. P. Roach, ex-officio.

RULES: F. T. Hall, Jr., Chairman; E. B. van Ormer, Vice-Chairman; J. M. Anderson; R. H. Waters; S. H. Campbell, ex-officio; The Secretary of the Senate, ex-officio.

EXTENSION POLICY: A. W. Hutchison, Chairman; A. H. Reede, Vice-Chairman; E. E. Baer; R. W. Brewster; H. S. Brown; Marjorie East; D. C. Jones; H. W. Knerr; R. E. McCord; H. R. McCulloch; E. L. Keller, ex-officio.

RESEARCH POLICY: R. W. Stone, Chairman; F. R. Matson, Vice-Chairman; H. B. Charnbury; H. B. Curry; E. A. Gross; Joseph Marin; Ruth Pike; D. R. Rank; W. S. Ray; E. P. Strong; M. A. Farrell, ex-officio.

SCHOLARSHIPS AND AWARDS: J. F. Bradley, Chairman; L. T. Bissey, Vice-Chairman; K. R. Beittel; J. A. Fox; Mary Fuqua; J. L. Gobble; Joseph Jordan; Mildred Lucey; A. G. Pundt.

STUDENT AFFAIRS: E. P. Nye, Chairman; W. M. Smith, Vice-Chairman; Helen Kinsloe; Monroe Newman; F. J. Simes, ex-officio; Pearl O. Weston, ex-officio; R. G. Bernreuter, ex-officio; Iline Fife, ex-officio; Jay Feldstein, president, SGA, ex-officio; Steve A. Garban, vice-president SGA, ex-officio; Ellen Donovan, president WSGA, ex-officio.

SUB-COMMITTEES OF

THE COMMITTEE ON STUDENT AFFAIRS

ACADEMIC DISCIPLINE: Made up of the chairmen of the several College committees on academic discipline.

ACADEMIC HONESTY: R. E. Armington, Chairman; E. W. Gamble, Jr.; Gary L. Gentzler; H. K. Hutton; Barbara A. Marcus.

DISCIPLINE: F. J. Simes, Dean of Men (Chairman for men student cases); Pearl O. Weston, Dean of Women (Chairman for women student cases); R. G. Bernreuter, Special Assistant to the President for Student Affairs; E. P. Nye, Chairman of Senate Committee on Student Affairs; Dean of the College in which the student is enrolled; Faculty or staff specialist on behavior or guidance as designated by the committee; Roger Serota, Chairman of Tribunal (advisory capacity) or Chairman of Judicial (undesignated); Faculty member designated by the sub-committee after consultation with the student whose case is under consideration.

HEALTH AND RECREATION: H. R. Glenn, Director of the University Health Service (Chairman); R. M. Conger, Faculty, in charge of Men's student recreation; Mildred Lucey, Faculty, in charge of Women's student recreation; Mariana Moldovan; George M. Stover.

ORGANIZATIONAL CONTROL: Ross B. Lehman, Chairman; Alex Black; Agnes R. McElwee; Rachel E. Newman; Gary B. Young.

SOCIAL AFFAIRS: William Crafts, Assistant Dean of Men, Chairman; Mae Shultz, Assistant Dean of Women; Cliff A. Nelson, Faculty; M. L. Zeigler, President, Association of Fraternity Counselors; Lois Cowan, President, Association of Women Fraternity Counselors; Edward Hintz, President, Inter-Fraternity Council; Phyllis Muskat, President, Panhellenic Council; Edward Frymeyer, President, Association of Independent Men; Rita Saltzer, President, Leonides; Ralph N. Krecker, Advisor to Association of Independent Men; R. Christine Yohe, Advisor to Leonides; W. F. Fuller, Director of Student Union.

UNIVERSITY-STUDENT RELATIONS: Lynn Christy, Chairman; E. C. Bischoff; Donald P. Dennis; David W. Detzer; Nell Murphy.

Respectively submitted,

Senate Committee on Committees

Robert G. Bernreuter, Chairman

D. H. McKinley announced Commencement plans for Saturday, June 7.

The next regular meeting of the Senate will be on October 2, 1958 in the Assembly Room of the HUB. The agenda will be distributed on September 18, 1958.

The meeting adjourned at 5:20 p.m.

C. O. WILLIAMS
Secretary

ANNUAL REPORT

Committee On Extension Policy

Introduction

During this year the Committee held a total of fifteen meetings, each two hours in length. In addition all members served on one or more sub-committees which made preliminary studies on major issues. The hard work of these smaller groups contributed immeasurably to the effectiveness of the deliberations of the general committee.

A number of the topics considered by the group are mentioned below with brief statements of some conclusions reached. Special comment has been made in these instances in which formal action by the Senate was requested.

Coordination with the Long Range Plans for the University

The committee was given the opportunity of becoming acquainted with the projections of the Long Range Development Committee through its ad interim report of June 6, 1957 and the longer report of January 1, 1958. The

implications of these reports insofar as Extension matters were concerned furnished the basis for many discussions in the committee and for certain of its recommendations. In this connection, for example, a study of the future plans of the University for its program of conferences and informal meetings indicated a very urgent need for a suitable Extension Conference Center which would provide facilities for housing, food service and instruction. The committee went on record as strongly recommending to the Development Committee the erection of such facilities.

The Approval of College-credit Courses

The annual report of this committee presented to the Senate June 4, 1957 recommended that "any College-credit course approved by the Senate may, at the discretion of the department offering the course, be given off-campus . . ." This recommendation was accepted by the Senate at the October 10, 1957 meeting.

Subsequently the committee studied carefully a suggestion made by Professor Oscar F. Spencer, Supervisor of Correspondence Instruction, that "approved courses" may be given by correspondence. The committee recommended this to the Senate and at the December meeting the action of the October meeting was amended to provide for the giving by correspondence, as well as off-campus, of any college-credit course approved by the Senate, at the discretion of the department offering the course.

The Courses of Study Committee has since carried through this principle of a single general approval of courses and has asked all departments to review their course offerings in the light of this Senate action.

It is believed that a considerable degree of flexibility in the operation of Extension instruction by correspondence and by class work has been accomplished by this simplification.

Center Facilities

In view of the proposals for a very considerable expansion in the coming years of the college-credit work in the centers, both in the associate degree and in the baccalaureate degree programs, the Committee gave its attention to the matter of the center facilities.

At the February 14 meeting of the committee, Mr. T. S. Goas, in charge of the Division of Graduate and Undergraduate Instruction in General Extension, presented a detailed survey of the present center facilities showing the distribution in the several academic ranks, degrees received, years of service and ages of the 179 full-time teachers in the program this year. Some of the problems foreseen for the future in recruiting and maintaining good teaching faculties in the centers were discussed with Mr. Goas and with Extension Directors K. L. Holderman and W. H. Powers who very kindly attended this particular meeting.

These matters were considered further at subsequent meetings of the committee but no formal action was taken.

Resident Instruction vs. Extension Instruction
A review of the Senate Rules for Undergraduate Students revealed that a number of these are concerned in one way or another with "residence" or with resident and extension instruction. The committee is proposing several items bearing on these matters for consideration at the May 29, 1958 meeting of the Senate.

Correspondence Instruction

Senate Rule E-6 presently prevents a student from being enrolled in a correspondence course while he is registered for resident instruction.

A survey questionnaire dealing with this rule was prepared by Professor O. F. Spencer and submitted to the Associate or Assistant Deans for Instruction in each of the Undergraduate colleges and to the Administrative Heads of the Centers. Nearly all replies indicated a desire for a change in this rule which would give relief from this restriction. A specific recommendation on this will be presented for consideration at the May 29 meeting also.

Summary

The Extension activities of the University represent an important part of its program of service. It is certain that these activities will expand in the coming years. Included in this general expansion will be a greatly expanded program of college-credit work in the centers and through extension instruction by class work and by correspondence.

In the face of the demands for higher education which will be placed on this University in the coming years it should be prepared to operate in the most flexible manner possible without sacrificing adequate scholastic standards. It is believed that the recommendations of this committee already approved by the Senate and those to be considered May 29, are actions which are in this direction.

Respectfully,
A. W. Hutchison
Chairman

Resignations Announced

Dr. William E. Ranz, professor of engineering research, has resigned, effective Sept. 15, to accept a position as professor of chemical engineering at the University of Minnesota. He joined the staff in 1953 as associate professor of engineering research and was named professor in 1956. He has conducted research in the areas of fluid mechanics and spray technology.

Two members of the Ordnance Research Staff have also resigned, to take positions in industry. John F. Horne, associate professor of engineering research, who has been at the Laboratory since 1952, resigned, effective today, to become an engineer for The Martin Co., Orlando, Fla.

Elliot Rhian, research associate, has been named head of the acoustics laboratory, University of Miami. He came to Penn State in 1953.

Dr. William M. Breazeale, professor of nuclear engineering, has resigned due to ill health. He came to the University in 1953 to head up the Research Reactor work.

Doris L. Snook, associate professor of home management extension, will leave July 31 to take a position in home management in Ohio.

Associate Degree Program For Hotel And Food Service

The Board of Trustees have approved the inauguration of a two-year, associate degree program in hotel and food service next Fall in an experimental basis.

The Trustees also announced the termination of the four-year curriculum in hotel administration, effective in 1962, and approved in principle its replacement by a new curriculum of five years' duration.

No students presently enrolled in the hotel administration curriculum or next semester's freshmen will be affected by this action.

The two-year terminal program is the first of its kind on main campus and is dictated by the prohibitive costs of equipment and the desire to make use of the facilities of the Nittany Lion Inn to fulfill practicum requirements.

Summer Movie Schedule

The complete schedule of free outdoor movies presented by the Office of Summer Sessions has been announced. The schedule, which began last evening, calls for a total of eight movies to continue through July 31. All will be shown at 9 p.m. on front campus near the Pugh St. gate and in Schwab Auditorium in case of rain.

The complete schedule:

June 19—Unguarded Moment

June 26—Written on the Wind

July 1—Backlash

July 10—The Promoter

July 17—To Hell and Back

July 24—Fours Girls in Town

July 31—The Sleeping City

Five Computer Seminars Scheduled For Summer

A series of five seminars in the area of automatic computers will be given this summer and may be of interest to faculty members. Further information concerning these seminars may be obtained from the chairman, as listed below, or at the Extension Conference Center. The five seminars are:

June 8 to 14, Digital Design of Electrical Equipment, chairman Dr. Donald T. Laird, assistant professor of electrical engineering.

June 16 to 21, Introduction to Computer Programming, chairman Peter Wegner, research assistant in engineering research.

June 23 to 28, Automatic Data Processing in Business and Industry, chairman Carl R. Moss, associate professor of industrial engineering.

July 13 to 25, Scientific and Engineering Computation, Dr. Mary Lister, assistant professor of mathematics.

Aug. 3 to 8, Mathematical Methods for Management, chairman Dr. O. E. Lancaster, George Westinghouse, professor of engineering education.

Dr. Freund Elected Chairman Of UCA Board Of Directors

Dr. Ernest H. Freund, professor of philosophy, was elected chairman of the Board of Directors of the University Christian Association at a recent meeting.

Other officers elected were: vice-chairman, the Rev. Dale Bringman, pastor of Grace Lutheran Church; secretary, Dr. Mary Fuqua, assistant professor of home economics; treasurer, Dr. Ralph Armington, associate professor of electrical engineering.

The executive committee of the UCA for the coming year will be: Dr. Dorothy Houghton, assistant dean of the College of Home Economics; Edwin P. Nye, associate professor of mechanical engineering; Dr. Leon Kneebone, associate professor of botany; Ralph N. Krecker, counselor in the Division of Counseling; the Rev. John Duley; Thomas Daubert, president of the Student Cabinet; Robert Stauffer, treasurer of Student Cabinet; and Sam N. Gibson, executive director.

Euwema To Act As Head Of English Department

Dr. Ben Euwema, dean of the College of the Liberal Arts, will serve as acting head of the department of English on an interim basis. Serving under Dr. Euwema will be Dr. A. Bruce Sutherland, who will be in charge of the English literature program, and Dr. J. S. Bowman, in charge of the English composition program.

The Board of Trustees has disclosed that the University will seek the advice of several distinguished consultants from other universities as to the long-range program, status and future of the department.

Maine Botanist Named To Head Department

Dr. J. E. Livingston, chairman of the department of botany and plant pathology at the University of Maine, was named to fill the same position at Penn State, effective July 1.

He succeeds Dr. Henry W. Popp, head of the department and a member of the staff in various capacities since 1917 who retires July 1.

A graduate of the University of Nebraska in botany, he obtained his master's degree there and his doctorate at the University of Missouri in 1940.

From 1940 to 1947 he divided his time between research and extension at Nebraska and from 1947 to 1954 between research and teaching. In the summers of 1952 and 1953 he did research on the control of stem rust of wheat with chemicals, at the invitation of the Rockefeller Foundation.

In 1954 he accepted the chairmanship of the department of botany at the University of Maine.

Two Retirements Announced

Arthur W. Einstein, associate professor of marketing and retailing, will retire July 1. He joined the faculty in 1950, coming to the University from The May Co., Youngstown, Ohio, where he was vice-president. He had a long career in engineering management and merchandising positions.

* * *

Eugene G. Ifft, county agent in Venango County since 1923, will retire July 1. As a junior at Penn State, Ifft started in extension work as a summer assistant agent in Berks County and a year later was made acting agent in Juniata County for one year. He is the holder of the Distinguished Service Award of the National Association of County Agricultural Agents and is past president of the Pennsylvania County Agents' Association.

Dr. Condee Named To Adult Liberal Arts Program

Dr. Ralph W. Condee, professor of English literature who has been a specialist in the humanities in the University's General Education Program for the past 18 months, will become part of the instructional team on the project to be known as the "Center of Continuing Liberal Education," on July 1.

The project, a five-year program with assistance from the Fund for Adult Education, will be under the direction of Dr. Cyril F. Hager. Dr. Robert Iverson has been named specialist in the Social Sciences and Edwin W. Zoller will be arts specialist. A fourth specialist, in the area of group leadership, is yet to be named.

The program, which begins officially on July 1, will endeavor to develop formal and informal liberal arts programs throughout the State by working with local groups and organizations.

Report from the Registrar

WITHDRAWALS Campus

- 2 Alderdice, George Fred, Coun, May 15
- 4 Anderson, Susan L., Coun, May 10
- 6 Beebee, Richard E., A L, May 12
- 2 Briggs, Gary Marshall, P N G, May 21
- 4 Cavanaugh, Richard E., Coun, May 14
- 6 Davis, Roderick Klinger, M E, May 19
- 2 Drenning, Gloria Ann, H Ec, May 16
- 2 Fagan, Harry C., Coun, May 6
- 2 Feldman, Marion, Coun, May 19
- 2 Fullerton, Linda Jeanne, H Ec, May 21
- 8 Garriest, Lloyd Q., A L, May 19
- 2 Hartung, Kenneth Jay, Coun, May 15
- 4 Lewis, Charles Edward, Coun, May 19
- 6 Lingenfelter, Bruce A., B A, May 21
- 2 Lohr, Charles R., Coun, May 19
- 2 Micks, Lawrence Gustave, B A, May 2
- 4 Nacrelli, Ralph Anthony, Jr., Coun, May 16
- 2 Novak, Frederick J., Coun, May 21
- 2 Patterson, Lloyd Gilbert, I E, May 21
- 2 Pedlow, Paul W., Ch E, May 13
- 2 Powell, Michael, PHYS, May 20
- 2 Sapovits, Michael D., Coun, May 22
- 2 Schuler, Charles M., Coun, May 14
- 2 Schwartz, Barton Frank, Coun, May 13
- 2 Shields, Donald L., Coun, May 14
- 2 Sparrow, Paul Allen, ARO E, May 7
- 2 Stef, Robert E., Ch E, May 2
- 2 Stulpin, William Christian, Coun, May 12
- 2 Taney, III, Edward Morgan, E E, May 14
- 2 Thomas, Melba Louise, Ed, April 25
- 2 Touchstone, John E., Coun, May 9
- 2 Zonarrich, Renita A., Journ, May 23
- 4 Becker, Ralph J., Coun, May 8
- 2 Broomall, Carolyn R., Coun, May 19
- 4 Criswell, George Albert, C E, May 22
- 2 DeRomo, Vivian Ann, EL ED, May 20
- 2 Feldman, Martin Richard, METAL, May 21
- 4 Gabel, Ronald Glen, Coun, May 21
- 2 Heelner, Lois R., A L, May 22
- 2 Heffelfinger, Jack Wallace, ARO E, May 20
- 2 Hiestand, Janet P., Coun, May 22
- 2 James, Beverly Ann, H Ec, May 22
- 4 Melville, Hayward Stewart, Coun, May 22
- 5 Merrill, Sue Lehman, ARTS, April 11
- 4 Piotrowski, Chester J., CHEM, May 21
- 2 Rose, Dennis M., Coun, May 16
- 2 Stephey, Carl R., PHYS, May 15
- 2 Zeamer, Robert B., Coun, May 19
- 6 Alperin, Robert E., C E, April 19
- Gr Berringer, Ernest F., GEOG, April 2
- 4 Forbes, Bruce L., Coun, May 2
- 2 Larson, Peter Grant, PH ED, May 7
- 2 Rosenberger, Cleman, Coun, May 21

University Centers

Bachelor Degree Program

- 2 Calleri, Salvatore George, Coun, Mar. 14
- 1 Taylor, Gerald William, B A, May 15

Associate Degree Program

- 1 Westbrook, Charles Robert, DDT, May 6
- The following reasons were given for withdrawing: scholastic, 30; personal, 15; financial, 4; illness, 5; and other, 2.

Change of Name

- Dickinson, Marilyn S., from Dumm, Marilyn S.
Faychak, Rosalie H., from Fasiczka, Rosalie H.
Grove, Wendy Katharine from Mayer, Wendy Katharine
Claypool, Maryn Starr from Starr, Maryn Mae
Melmed, Shirley Ann from Hall, Shirley Ann

Milholland Memorial Fund To Augment Pattee Collection

The James Milholland Memorial Fund for the purchase of books and manuscripts to augment the Fred Lewis Pattee Collection has been established.

The Board of Trustees has authorized immediate transfer to the fund approximately \$1,000 previously pledged and intended to honor the memory of Dr. Pattee. Mr. Milholland served as a member of the Board of Trustees for 23 years and for three years acted as president of the University.



Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Trustees Announce Promotion Policy

The Board of Trustees of the University, at its June Meeting, adopted the following policy governing promotions in academic rank.

I. General Criteria for Promotion

All promotions in rank are based upon consideration of merit and not upon seniority or any other factors. For members of the faculty merit can be judged as follows:

(1a) *Teaching Ability.* This includes the ability to make students think critically and purposefully, the ability to interest students in the broad problems of the course, the ability to construct honest instruments of evaluation and to interpret the results impartially, and the ability to maintain sound academic standards.

or (1b) *Research Ability.* This includes the ability to train students in research; to lay out a tentative theory and to plan the experiments for testing; the ability to design the equipment and construct or instruct others on how to construct it; the ability to direct assistants, operate within a planned budget, and present the results of research in a form easily understood by one's colleagues and by laymen.

(2) *Scholarship.* This includes not only academic preparation, but also evidences of continuing scholarly growth as exemplified in both published and unpublished contributions to knowledge.

(3) *Character and Personality.* The faculty member must possess those qualities of mind and spirit which will merit emulation by the students: fairness, open-mindedness, objectivity, tolerance, patience, and a saving sense of proportion.

(4) *Academic Responsibility.* This phrase is intended to suggest that the faculty member should make a genuine contribution to the program of the institution and of the academic community by conscientiously advising students, by efficient administration of one

or more units of the university organization, by participation in the work of important committees, etc.

(5) *Professional Development.* The faculty member is expected whenever possible, to maintain an active interest in the program of professional societies and to develop, as his experience grows, an understanding of the broad national and international aspects of his special field of interest.

(6) *General Qualifications.* The faculty member should possess, in addition to the qualities listed above, the minimum standards for each rank as outlined below.

II. Criteria for Promotion by Academic Rank

(1) *Lecturer.* This title is to be employed for temporary appointments of teaching faculty members whom it is not feasible to assign to a specific rank.

(2) *Instructor (or Research Assistant).* The instructor (or research assistant) should possess the bachelor's and master's degrees and at least two years of graduate work in the field of his specialization or equivalent experience in organized research or in practice of a profession under competent guidance. Experience in teaching, while desirable, is not necessary.

(3) *Assistant Professor (or Research Associate).* The assistant professor (or Research Associate) should possess a doctor's degree or its equivalent in organized research or professional practice. He must have demonstrated his ability as a teacher or research worker and he must have shown definite evidence of growth in scholarship.

(4) *Associate Professor (or Senior Research Associate).* He should possess the same qualifications as the assistant professor (or research associate), but he must also give evidence of an established reputation in scholarly, artistic, or professional achievement.

(5) *Professor.* In addition to the characteristics of the members of the lower ranks, the professor should give

evidence of a marked capacity for creative work and of leadership in his field of specialization. The rank of professor should be reserved for persons of proven stature in teaching or research.

III. Proportional Distribution of Academic Ranks by Colleges

Although no hard-and-fast rule can be laid down for the proportions of a given faculty in each academic rank, especially when the unit for computation is a department, the following proportions shall serve as a guide for the various colleges of the University:

1. Assistant Professors, Instructors, Research Assistants, Research Associates, equivalent full-time Graduate Assistants should comprise at least sixty percent of the total academic staff.

2. Not more than twenty-five percent of the academic staff should hold the rank of Associate Professor or Senior Research Associate.

3. Not more than fifteen percent of the total academic staff should hold the rank of Full Professor.

Science Institute Program Offered Again This Year

The Science Institute for Teachers, offered last year for a full 32-week period after four years as a summer program, will again be given during the current academic year.

The National Science Foundation, sponsor of the program, has renewed its grant to the University in the amount of \$286,000. Enrollment last year was 50, twenty-one of whom received master of education degrees in June.

Departments are requested to return all copies of the *Faculty Bulletin* addressed to persons no longer members of the faculty so that our mailing list may be brought up to date.

Senate Minutes

Annual Report THE COMMITTEE ON ATHLETICS 1957-58

The Committee held meetings as required throughout the year, the last one on June 30, 1958. Ordinarily it is unnecessary to hold frequent formal meetings of this committee, since the chairman takes appropriate actions throughout the year in compliance with the rules and procedures approved by the Committee.

Accordingly, the chairman, acting for the Committee, and with information supplied by the Director of Athletics and the Office of the Recorder, determined eligibility in 930 cases. Of these, 827 were approved and 103 were disapproved. Similarly there were 2240 excusals issued for class absences for regular athletic events, both at home and away.

Varsity track schedules for 1958 were examined and approved by the Committee on December 23, 1957. On February 11, 1958 other sports schedules for the 1958-59 season, both freshman and varsity, were approved. Varsity football was not under consideration at this time owing to the fact that this schedule had been previously approved. Also on this date, a Committee eligibility rule requiring a minimum average of 1.65 was rescinded. This requirement had become obsolete in view of the revised "p" rules of the Senate.

The Committee took appropriate action throughout the year, as required by Rule X-6, on individual applications from students desiring to participate in athletic events outside the jurisdiction of the University.

In several instances the Committee, by a majority vote, cast the ballot for the University in connection with the admission of institutions applying for membership in the National Collegiate Athletic Association.

Members of this committee are also automatically members of the Athletic Advisory Board. As such, they participated in all meetings of the Board.

Respectfully submitted,
N. R. Sparks,
Chairman

ANNUAL REPORT COMMITTEE ON STUDENT AFFAIRS 1957-58

The Committee on Student Affairs is charged by the constitution of the University Senate with a rather broad area of responsibility for faculty interest as it relates to various student social, political and recreational activities. The constitution states that the committee "shall have the authority to advise the appropriate officers of administration on the execution of policies coming within its jurisdiction." However, it is perhaps inevitable that a clear separation of policy formulation (and interpretation) from policy administration has not always been made. Growth in the number and the complexity of student activities has more than matched that of the University itself and a sharp reduction in the performance of administrative activities by committees has become necessary.

The major effort of this committee during the past year has been directed towards the review and clarification of policy followed by explicit delegation of responsibility for its administration to the appropriate administrative offices.

In discharging its obligations the committee met 21 times for a total of 27 hours during the academic year. The several subcommittees, notably that for organization control spent many more hours in separate sessions. Major committee actions are summarized below:

1. Recommended to the Administrative Committee on Student Affairs definite revisions in the procedures followed in supervision of student organizations so as to require:
 - (a) Maintenance of an up-to-date file containing copies of constitutions, lists of current officers and advisors of all chartered organizations.
 - (b) Annual auditing of books of all chartered organizations.
2. Presented to the senate the report of the subcommittee on Academic Honesty and secured modification of O-3 rule so as to permit the establishment of student Honor Systems, as recommended by the subcommittee.
3. Granted "charters" to four new groups, approved national affiliation for four others and placed one (sorority) on inactive status, all upon recommendation of the subcommittee on organization control.
4. Initiated action to establish and maintain financial responsibility in student political organizations.

In addition to these definite actions, the committee continued to examine the whole problem of student compensation and the relation of student affairs at the centers to those on the main campus. Both matters have been referred to the Encampment Committee with the hope that next year's committee may be guided somewhat in these areas by Encampment recommendations.

In concluding this report I wish to thank the committee members, both student and faculty for the sincerity and purposefulness of their efforts. The respect and understanding displayed for differing viewpoints in our many sessions attests that a generally healthy student-faculty relationship is prevalent in this University.

Respectfully submitted,
E. P. Nye
Chairman

ANNUAL REPORT COMMITTEE ON SCHOLARSHIPS AND AWARDS

1957-58

The Senate Committee on Scholarships and Awards engaged in the following activities during the year:

1. All athletic grants-in-aid were reviewed and found to be in order;
2. The Committee interviewed and appraised six applicants for Fulbright Awards;
3. During the Fall Semester, 79 scholarships were awarded;
4. During the Spring Semester, three scholarships were awarded;
5. The Committee selected recipients for the John W. White Medal and the Evan Pugh Medals;
6. The Committee made two nominations for the Phi Kappa Phi Award.

We wish to thank the Coordinator of Scholarships for his fine cooperation during the entire year.

Respectfully submitted,
Joseph F. Bradley,
Chairman

ANNUAL REPORT COMMITTEE ON RESEARCH POLICY

1957-58

The Committee on Research Policy held 19 meetings during the past year. The main activity centered on the development of a Statement of Research Policy, representing an expansion of certain parts of the report presented to the Senate a year ago. The central thesis of the report was that research is an activity expected of the University for the enlightenment and use of the society which supports it, and is not to be regarded as a peripheral or casual part of the duties of the staff member. This year's report was first presented to the Senate on March 6. Action on the report was postponed until the April meeting at which time a revised report was submitted and approved.

During October 1957, President Walker asked the Committee to consider as a matter of policy whether Penn State should expand facilities for research in mental health and related areas in public health. The Committee discussed this problem among its members and with several consultants. A report was prepared and submitted to the President on November 12, 1957.

The Committee also reviewed and made suggestions for the proposed revision of the booklet entitled Policy and Procedures in Research prepared by the Administrative Committee on Research.

Respectfully submitted,
Robert W. Stone,
Chairman

Art Exhibit At HUB

The first exhibit of the year at the Hetzel Union Building comprises the works of artists who were graduates of leading art schools during the period 1949-1955. The exhibit is titled "Art Schools, U. S. A." and it will continue through Oct. 7.

Most of the works are oil paintings, but also included are watercolors, graphics, and pieces of sculpture.

Five Appointments Made To Faculty

New appointments to the faculty of the University include the following:

Dr. Amp F. Hicks, Jr., associate professor of poultry husbandry. He was formerly assistant professor of poultry husbandry at the University of British Columbia. A graduate of the University of Kentucky, he received master of science and doctor of philosophy degrees from the University of California in genetics. He has been at the University of British Columbia since 1952.

Dr. Andrew V. Kozak, associate professor of education. He comes from the Martin Co., Baltimore, Md., where he has engaged in research and special projects since 1956. Dr. Kozak was instructor in education at Penn State in 1947-48 and has taught at West Virginia University, Greenbrier County Schools, Ronceverte, W.Va., Concord College, Cornell University and Colorado A. and M. He is a graduate of Susquehanna University, with master of science degree from West Virginia and doctor of education from Penn State, with post-doctoral work at The Johns Hopkins University.

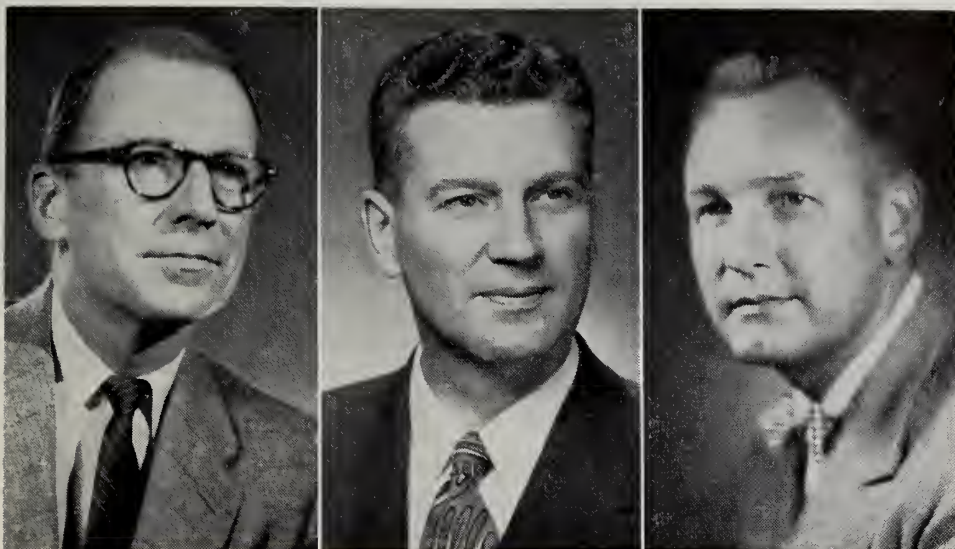
Dr. Frank J. McArdle, associate professor of horticulture. He was assistant professor of food technology and horticulture at Michigan State University since 1955. A graduate of Purdue University, where he also received the master of science degree and doctor of philosophy degree, he has served at the University of Arkansas and Purdue.

Dr. Ernest L. Bergman, assistant professor of plant nutrition in the department of horticulture. He held positions with private orchardists in Europe and this country before joining the faculty of Oregon State College in 1953 and Michigan State in 1955. Born in Munich, Germany, he was graduated from the Berne State Agricultural School in Switzerland, received his bachelor of science degree in pomology from Oregon State College, and master's and doctor's degrees from Michigan State University.

Dr. Hildegard Hoss, visiting research associate in solid state technology. She comes from the University of Göttingen. She attended schools in London and Freiberg, Germany, and studied mineralogy and geology at the Universities of Freiberg and Göttingen.

Lowenfeld Book Is Named Outstanding

Viktor Lowenfeld, professor and head of the department of art education, is author of the book "Creative and Mental Growth," which has been selected as one of the 40 outstanding educational books of 1957 by the Enoch Pratt Free Library. The Library was assisted by educational specialists in various subject fields from all parts of the country in making the selection. The third edition of the book was published last year.



Ferguson

Bixby

Brayfield

Ferguson, Bixby In New Posts; Brayfield New Psychology Head

T. Reed Ferguson, administrative head of the Extension Conference Center since 1954 and previously administrative head of the Behrend Center at Erie, has been named to the newly created position of director of University relations.

Ferguson will be responsible for formal public occasions and effective reception of visitors to the University and will assist the Vice President for Development in administering the University's relations with the government of the Commonwealth.

A graduate of the University in 1936, Ferguson was supervisor of art in the Avon Grove Consolidated Schools; art teacher at Fort Hill High School, Cumberland, Md.; technical illustrator and editor for Consolidated Vultee at Allentown; served in the American Red Cross in 1945-46; took graduate work at Harvard University and special work in art at Penn State and the University of Pennsylvania before joining the Extension staff as administrative head of the Pottsville Center.

* * *

Dr. Paul W. Bixby, professor of elementary education, has been named assistant dean for extension in the College of Education, succeeding Dr. Joseph J. Lowden, who was director of education extension until his death on June 20.

Dr. Bixby, who has been acting head of the department of education while Dr. Charles M. Long is on leave of absence, will continue as professor of elementary education along with his new position.

Appointed to the faculty in 1947, Dr. Bixby had previously served as principal of the Short Hills Schools and Director of Elementary Curriculum, Millburn, N.J.; principal of the Cos Cob school, Greenwich, Conn.; teacher and director of visual education in St. Cloud, Minn.; and taught in rural schools in Minnesota.

Dr. Arthur H. Brayfield, chairman, department of psychology at Kansas State College since 1951, has been named professor and head of the department of psychology.

He succeeds Dr. C. R. Carpenter, who resigned to devote full time to his duties as director of the Division of Academic Research and Services.

A graduate of the University of Minnesota, where he also completed his graduate work, Dr. Brayfield has served as assistant dean of Colorado A. and M. and dean of student personnel at Long Beach, Calif., City College.

He has taught at Minnesota, California, Montana State, and Kansas State. In 1952 he was research associate with the Bureau of Applied Research, Columbia University, and previously had been personnel consultant to McKesson and Robbins, Inc., and personnel consultant to the U.S. War Department.

Dr. Heaton Named First Distinguished Visiting Professor

Dr. Herbert Heaton, chairman of the department of history at the University of Minnesota, has been named distinguished visiting professor of history for the fall semester. He is the first to be appointed to this new title, established in the fields of social sciences, the humanities, physical sciences, and biological sciences.

A graduate of the University of Leeds, he also received a degree from the University of Birmingham and taught there as well as at the University of Tasmania and the University of Adelaide, in Australia. He was named head of the department of history at Queens University, Kingston, Ont., in 1925 and in 1927 professor of economic history at the University of Minnesota. He has been chairman of the department of history at Minnesota for the past four years.

Next Month On Campus

Events listed herein are subject to change. Organizations and departments wishing to list events of campus-wide interest should provide information as far in advance as possible. Events of special faculty interest will be listed in the weekly calendar only.

CHAPEL SERVICE

- 10:55 a.m., Schwab Auditorium
Sept. 21—Dr. William P. Muehl, professor of practical theology, Yale University Divinity School.
Sept. 28—Dr. Theodore A. Gill, managing editor, *The Christian Century*.
Oct. 5—The Rev. Preston N. Williams, assistant University chaplain.
Oct. 12—Dr. Luther H. Harshbarger, University chaplain.
Oct. 19—Dr. Leslie E. Cooke, associate general secretary, World Council of Churches.

CONCERTS

- Sept. 26—Artists' Series program by New York Pro Musica, 8:30 p.m., Schwab Auditorium.
Oct. 5—Jazz Club program by Ted Heath and Orchestra, 8 p.m., Recreation Bldg.
Oct. 12—Artists' Series program by Danish National Orchestra, 8:30 p.m., Schwab Auditorium.

DRAMATICS

- Oct. 9-11—Thespian Show, 8 p.m., Schwab Auditorium.
Oct. 10, 11, 17, 18—Center Stage, "The Druid Circle," 8 p.m. (runs until Nov. 10).
Oct. 18—Artists' Series presentation of Shakespearean readings by John Gielgud, 8:30 p.m., Schwab Auditorium.

ATHLETICS

- Sept. 27—Soccer, vs. Bucknell, 1:30 p.m.
Oct. 4—Cross country, vs. Navy, 1:00 p.m.
Oct. 11—Soccer, vs. Syracuse, 10 a.m.
Oct. 11—Football, vs. Marquette, 1:30 p.m.
Oct. 18—Soccer, vs. Colgate, 1:30 p.m.

LECTURES

- Oct. 19—The Hon. Richardson Dilworth, mayor of Philadelphia, 8 p.m., 121 Sparks, "Integration in the North."
Oct. 29—Panel discussion "Integration in the North," 8 p.m., 121, Sparks.

MEETINGS

- Oct. 10-11—Alumni Homecoming.

Items of Interest

Dr. E. Willard Miller, head of the department of geography, has been named chairman of the credentials committee and of the program committee of the Association of American Geographers. . . . Dr. M. R. Cannon, professor of chemical engineering, delivered a paper on "The Principle of Controlled Cycling" before the Division of Industrial and Engineering Chemistry of the American Chemical Society last week. . . . Dr. Earl P. Strong, director of the Bureau of Business Research and professor of management, is currently conducting four two-day clinics on management in England. . . . Harry M. Crain, associate professor of engineering research at the Ordnance Research Laboratory, has been granted a patent for a variable-frequency indexer.

Calendar

Friday, Sept. 12

Registration continues, Recreation Building.

Saturday, Sept. 13

Registration continues, 8 a.m., to 12 noon, Recreation Building.

Sunday, Sept. 14

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther H. Harshbarger, University chaplain.

Monday, Sept. 15

Classes begin, 8 a.m.

Thursday, Sept. 18

Faculty meeting, College of the Liberal Arts, 4:15 p.m., 121, Sparks.

Friday, Sept. 19

Fluid Mechanics seminar, 4:10 p.m., hydraulics laboratory, Sackett Building. Dr. Heinrich Press, Berlin Institute of Technology, Germany, on "Discontinuous Flow in Open Channels and at River Power Stations."

Changes In Status Announced For 20

The following changes in status have been announced, effective July 1, except where indicated:

Assistant professor to professor — Dr. Clyde R. Burnett, physics.

Research associate to associate professor — Douglas F. White, mechanical engineering, Sept. 1.

Instructor to assistant professor — Paul M. Anderson, agricultural engineering; Elliot E. Dodson, mechanical engineering; Della Durant, physical education; Philip A. Klein, economics; Samuel S. Lestz, mechanical engineering; Catherine B. Love, nutrition and health extension.

Isabel M. Oakwood, chemistry; Dr. Wayne T. O'Dell, dairy science; Dr. Peter B. Pfahl, floriculture; Herman R. Purdy, animal husbandry; Dr. Fred P. Rimrott, engineering mechanics; Dr. Stanley H. Rosen, philosophy; Mark D. Shaw, agricultural engineering; and Elizabeth J. Yeager, art education.

Research assistant to research associate — Peter J. Wyllie, geochemistry.

Research assistant to instructor — Donald F. Spooner and John A. Stellmack, petroleum chemistry.

In addition, Richard O. Rowlands, associate professor of electrical engineering, has been named associate professor of engineering research in the Ordnance Research Laboratory, effective Sept. 1.

Dr. White Granted Honorary Degree

Dr. Marsh W. White, professor of physics, has been awarded the honorary degree of doctor of science by Park College, Parkville, Mo., from which he was graduated in 1917. He has served on the Penn State faculty since 1922, with the exception of one year at Williams College.

Artists' Series Program Announced

The 1958-59 Artists' Series of 17 programs will begin on Sept. 26, with the New York Pro Musica group, a virtuoso ensemble of eleven artists directed by Noah Greenberg.

Other programs in the series include:

- Oct. 12, Danish National Orchestra.
- Oct. 18, Sir John Gielgud, Shakespearean readings.
- Oct. 26, Robert Iglesias and his Spanish dance group.
- Nov. 2, Guiomar Novaes, Brazilian pianist.
- Nov. 14, Canadian Players, Ltd., in Shakespeare's "As You Like It."
- Nov. 15, Canadian Players, Ltd., in Shaw's "Devil's Disciple."
- Dec. 10, Elisabeth Schwarzkopf, soprano.
- Jan. 13, Concert-Opera Group in Mozart's "Cosi Fan Tutte." (Also in open rehearsal with University orchestra on Jan. 12.)
- Feb. 9, Concordia Choir, Moorhead, Minn.
- Feb. 13, Stuttgart Chamber Orchestra.
- Feb. 21, Philadelphia Symphony Orchestra.
- Mar. 1, Jussi Bjoerling, Swedish tenor.
- Apr. 7, Nathan Milstein, violinist.
- Apr. 18, Emlyn Williams, Welsh actor.
- Apr. 28, Michael Tree, violinist, with University symphony. (Also in open rehearsal, Apr. 27, and workshop, Apr. 28.)
- May 15, E. E. Cummings, poet.

The Artists' Series is supported by a student fee and from the sale of a limited number of tickets to faculty and other non-students.

Leaves Approved

The following leaves of absence have been approved by the Board of Trustees:

Edward Abramson, associate professor of sociology, Sept. 1 to June 30, 1959, to serve as visiting professor of sociology at the University of Saskatchewan.

Dr. Elizabeth C. Hiller, associate professor of home economics education, Sept. 1 to June 30, to accept foreign service assignment in Pakistan.

Dr. Mervin R. Lowe, assistant professor of English composition, Sept. 1 to June 30, to serve as visiting professor of American literature at the University of Saigon in Viet Nam.

Dr. George A. Theodorson, assistant professor of sociology, Sept. 1 to June 30, to lecture at the University of Rangoon, Burma.

Richard D. Mathieu, instructor in aeronautical engineering, Sept. 1 to Jan. 31, to complete his doctoral thesis.

Frank J. Entiero, instructor in German and English composition, at Ogontz Center, July 1 to June 30, 1959, to enroll for graduate work.

Israel Warshaw, research assistant in geochemistry, July 1 to June 30, to accept a fellowship.

Roy F. Snyder, county agricultural agent in Perry County, Sept. 16 to Sept. 15, 1959, to enroll for graduate work at Michigan State University.

Verna M. Criss, extension home economist, Berks County, Oct. 1 to Mar. 31, 1959, for travel in the Far East and graduate study at Drexel Institute.

Joanne D. Noonan, extension home economist in Crawford County, July 1 to Oct. 31, for personal reasons.

Jackie H. Paules, assistant county agricultural agent, July 1 to June 30, for military service.

Lawrence A. Lindstrom, assistant county agricultural agent, Sept. 16 to Sept. 15, 1959, to enroll for graduate work at the University of Missouri.

Thomas E. Piper, assistant county agricultural agent, Sept. 16 to Sept. 15, 1959, to enroll for graduate work at Cornell University.

U Club Reception Oct. 5

The annual University Club tea and reception, normally held in November, will be held this year on Sunday afternoon, Oct. 5th, 3-5 p.m. Invitations are being sent to all faculty members and wives. Members of the University Club have further information regarding the reception and in each department there is a representative of the reception committee.

Development Committee Assumes Broader Duties

To indicate its broadened responsibility, the Administrative Committee on Long-Range Development has been renamed the "University Development Committee," President Eric A. Walker announced on June 10.

As presently organized, the committee consists of C. S. Wyand, vice president for development, as chairman; L. E. Dennis, vice president for academic affairs; Ossian MacKenzie, vice president for business administration; McKay Donkin, vice president for finance; M. A. Farrell, vice president for research.

E. L. Keller, director of General Extension; R. E. Larson, chairman, Senate Committee on Educational Policy; A. W. Hutchison, chairman, Senate Committee on Extension Policy; R. W. Stone, chairman, Senate Committee on Research Policy; H. K. Schilling, representative, Council of Academic Deans.

C. R. Carpenter (consultant), director, Division of Academic Research and Services; and W. H. Wiegand (consultant), director, department of physical plant.

Faculty Luncheon Club First Meeting Sept. 22

The Faculty Luncheon Club will open its fall program on Monday, Feb. 22 in dining room "A", Hetzel Union Building, at noon. Dr. R. Wallace Brewster, professor of political science, will speak on "The Problem of the Executive Power in France." All faculty members are invited to attend these weekly informative meetings.

Resignations Announced

Resignations of the following faculty members were announced during the summer:

Albert Christ-Janer, director of the School of the Arts and professor of art, Aug. 31, to assume the position of dean of the art school and professor of art at Pratt Institute, Brooklyn, N.Y.

Dr. George J. Young, associate professor of fuel technology, Aug. 31, to accept a position at Alfred University.

Dr. Edward S. Herman, associate professor of economics, Aug. 31, to accept a position at the University of Pennsylvania.

Howard A. Scheetz, research associate in engineering mechanics, Aug. 31, to enroll for graduate work.

Herbert D. Norviel, research associate in engineering research, July 31, to accept a position with AVCO Manufacturing Co., Boston.

Robert W. Farwell, research associate in engineering research, June 30, to continue graduate work.

Erma L. Sambrook, dean of women at Ogontz Center, Aug. 31.

Helen Canaday, instructor in home-community relationships, to accept a position at Women's College of the University of North Carolina.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Keller Coordinator For Act

The new National Defense Education Act of 1958 is considered by many educators to be the most important piece of legislation for higher education since the Morrill Land Grant Act of 1862.

Purpose of the Act (from its statement of policy) is: "Since . . . to meet the present educational emergency requires additional effort at all levels of government, it is therefore the purpose of this Act to provide substantial assistance in various forms to individuals, and to States and their subdivisions, in order to insure trained manpower of sufficient quality and quantity to meet the national defense needs of the United States."

E. L. Keller, Director of General Extension, has been appointed by President Eric A. Walker as coordinator for the University in making use of the provisions of the Act. He will be responsible also, for contacts by the University with the Federal Government, while Dr. C. O. Williams, Assistant to the President for Special Services, will be responsible for contact with agencies of the State Government.

Anyone who wishes to set up a special program within the provisions of the Act will make an initial contact with Mr. Keller. Either Mr. Keller or Dr. Williams, depending upon whether the details of the program are concerned with the U. S. Office of Education or with a State agency, will make the necessary arrangements.

Committees are already active in the following fields: 1) Student loans; 2) Fellowships; 3) Testing of students; 4) Guidance and counseling of students; 5) Language development; 6) Research and experimentation in television, radio, and related media.

Health Center Open House

The Ritenour Health Center will hold an open house from 10 a.m. to noon on Saturday, Oct. 11. The widow and children of Dr. Joseph P. Ritenour, University physician from 1917 to 1946, are expected to attend.

Artists' Series Tickets Available Wednesday

General sale of tickets for the opening program of the Artists' Series will be held on Wednesday and Thursday, Sept. 24 and Sept. 25 from 9 a.m. to noon and 1 to 5 p.m. at the Hetzel Union Building registration desk.

The New York Pro Musica group, directed by Noah Greenberg, will present the concert at 8:30 p.m., on Friday, Sept. 26 in Schwab Auditorium.

All tickets on general sale are priced at \$1.25.

The New York Pro Musica is a virtuoso ensemble of instrumentalists and vocalists which made its debut in 1952 and has appeared in numerous festivals, on television, and in many concerts.

Color Slide Club To Meet Monday

The first fall meeting of the State College Color Slide Club will be held Monday evening, Sept. 22, at 7:30 p.m. in the Mineral Sciences Auditorium.

The program will feature showings of the prize winning slides of last year and the awarding of cups to the three persons with the highest scores.

Television Instruction Project Expanded

The program of televising classes via the closed-circuit system on campus will be larger again this year.

A total of 18 classes in 15 different courses will be televised, compared to only 12 classes in 10 subjects. For the first time, certain courses in mathematics, commerce, and anthropology are included in the program.

Enrollment Shows Four Per Cent Gain

Enrollment at the close of registration at noon, Saturday, Sept. 13, showed an increase over corresponding figures last year both on main campus and at the centers.

A total of 17,525 had registered at all campuses, compared to 16,837 a year ago. Complete and official figures, which will be available soon, are expected to go above 20,000, since the total last year ultimately reached 19,265 when late registrants had been included.

The main campus enrollment, up 334 over last year totalled 14,137 and registration at the centers and Mont Alto was 3,388, an increase of 354. The increase at the centers represents enrollment at two new centers — Wyomissing and New Kensington — and an increase in both the four-year and associate degree programs at all centers.

President Eric A. Walker said that a larger percentage of enrollees returned to campus than in former years and looked upon this increase as reflecting credit on the counseling program. Freshman enrollment is down by about 100 from last year.

"I am encouraged by the enrollment figures," the President said. "They indicate that we are making progress scholastically and that the Division of Counseling is helping us to keep more and more of our students."

Navy Grants High Award To President Walker

The Department of the Navy has conferred on President Eric A. Walker its Distinguished Public Service Award, highest of three granted to civilians.

The award was made for Dr. Walker's "outstanding contributions . . . in the fields of scientific research and development."

The ceremony formally closed Dr. Walker's two-year term as chairman of the Committee on Undersea Warfare of the National Academy of Sciences-National Research Council. He will continue to serve on the committee.

Senate Minutes

ANNUAL REPORT COMMITTEE ON CALENDAR 1957-58

The Committee on Calendar of the University Senate was charged by the President with the responsibility of making a study of the various calendar plans such as the semester, quarter, and the trimester patterns to determine which would be best for The Pennsylvania State University. The need for the study arose out of the anticipated rapidly increasing demand for University services.

During the year the Committee undertook the following projects in order to have the widest possible basis for a report to the Senate:

1. Reviewed earlier reports and calendar history at Penn State;
2. Sought the opinions of University officials;
3. Considered studies made by the Penn State Summer Sessions Advisory Committee;
4. Arranged a Special Meeting of the University Senate to which all faculty were invited and at which the various points of view and merits of the three calendar plans were discussed;
5. Conducted a survey of faculty opinion on calendar systems;
6. Cooperated with the Student All-University Cabinet in sponsoring a survey of student opinion on calendar systems;
7. Examined reports from other institutions which have studied the comparative merits of various calendar systems;
8. Studied statistics regarding summer-session enrollments at many other institutions operating under both the semester and the quarter systems.

At the Senate Meeting on May 1, 1958, the Committee recommended that in order to provide for efficient continuous use of the University's facilities and to meet the rapidly increasing demand for its educational services:

1. That the present calendar be modified to encourage continuous study throughout the whole year;
2. That the new calendar consist of two terms, similar to the present semesters, providing for approximately 15 weeks of classes in addition to registration and examination periods, plus a third term during the summer of approximately two-thirds the length of the fall and spring terms, with all three terms to be administered alike;
3. That the present Summer Sessions be continued in coordination with the new calendar.

The recommendations of the Committee were not approved by the Senate and the Committee was requested to restudy the calendar question.

The Committee then concluded that the Senate should be given the opportunity to express its opinion by ballot as to which basic calendar system would be considered best for The Pennsylvania State University. Therefore, the Committee will present two ballots to the Senate at the May 29, 1958 meeting. On the first ballot the Senators will indicate which Calendar System is considered best for the University. On the second ballot they will vote on the Summer Sessions arrangement considered most advantageous.

The Calendar Committee will consider the results of the balloting as the opinion of the Senate with regard to future calendar policies. After the Trustees have taken such action as they choose to take on the matter, the Committee shall recommend details of calendar policy.

Respectfully submitted,
F. M. Coombs,
Chairman

Cope Acting Director Of School Of Forestry

H. Norton Cope, professor of forestry, has been named acting director of the School of Forestry and acting head of the department of forestry. He succeeds Dr. William C. Bramble, who had been acting director of the School since 1955, when Maurice K. Goddard was granted a leave of absence to serve as State Secretary of Forests and Waters. Dr. Bramble is now head of the department of forestry and conservation at Purdue University.

Eight Additional Appointments Listed

The following appointments to the faculty have been made recently:

Robert T. Duquet, assistant professor of meteorology, who has been an instructor in meteorology at New York University since 1955. He received his bachelor of science degree from Loyola College of Montreal, Canada, master of arts from the University of Toronto, and will receive his doctor of philosophy degree from New York University in January. He has previously been employed as independent forecaster for the Department of Transport, in Canada.

Robert F. Schmalz, assistant professor of geology, who has been enrolled for graduate work at Harvard University. He will qualify for his doctor of philosophy degree at Harvard in February. He has completed geological field investigations in New Mexico, the Rocky Mountain area, and in Tunisia and has served as research chemist with the Directorate of Medical Research in the Army Chemical Center.

Norman Suhr, spectroscopist in the Mineral Industries Experiment Station. Now a candidate for the doctor of philosophy degree at the University of Chicago, he received bachelor of arts and master of science degrees from the University of Chicago. He has previously been employed by the Heavy Minerals Co., Chattanooga, Tenn.

Helen A. Loftis, assistant professor in home economics education, who comes from Indiana State Teachers College, where she has been assistant professor for the past seven years. A graduate of Winthrop College with a master of science degree from the University of Tennessee, Miss Loftis has taught in high schools in South Carolina and Tennessee.

Mary Alice Russell, assistant professor of child development and family relationships, who for the past four years has been a teaching associate in the Child Welfare Research Station at the State University of Iowa. She obtained both bachelor and master of science degrees from the University of Wisconsin.

Dr. Alberta E. Siegel, assistant professor of child development and family relationships, who returns to the campus after a year of teaching at Stanford University.

Jay R. Richardson, instructor in family relationships, who was graduate assistant at Brigham Young University in the departments of Psychology and human development and family relations. He obtained both bachelor's and master's degrees from that university.

Beatrice S. Kalka, instructor in clothing and textiles. Miss Kalka is a graduate of Texas State College and earned her master's degree at the University of Tennessee. She has taught in high schools and at the American Dependents School in Wiesbaden, Germany.

Items of Interest

Dr. Hugh M. Davison, professor of educational research, has been named a member of the Pennsylvania Department of Public Instruction's Advisory Committee on Improvement of Statistical Services of State Educational Agencies. . . . **Ralph H. Wherry**, head of the department of commerce served as moderator of one panel and participated in another at the 69th annual convention of the Pennsylvania Association of Insurance Agents last week. . . . **Dr. Frank D. Kern**, professor emeritus of botany and dean emeritus of the Graduate School, was honored recently at the 50th anniversary meetings of the American Phytopathological Society. He is a charter member and authored the first scientific paper published by the Society. . . . **Howard L. Hartman**, head of the department of mining, has been appointed to the newly organized mine ventilation advisory committee of Bituminous Coal Research, Inc. . . .

Dr. W. A. Weyl, professor of glass technology, participated in discussions on non-crystalline solids, at the recent conference on Non-Crystalline Solids sponsored by the National Research Council at Alfred University recently.

Dr. Leon R. Kneebone, associate professor of botany and plant pathology, will present several papers at the meetings of the British Mushroom Growers Association in Bournemouth, England, on Oct. 1 and 2. . . . **Kenneth L. Holderman**, assistant dean of the College of Engineering and Architecture, participated last week in the 13th annual Instrument-Automation Conference in Philadelphia as one of six engineering educators on an audience-panel workshop. . . . **Dr. Hans Neuberger**, head of the department of meteorology, has been appointed to the executive committee of the Division of Earth Sciences of the National Academy of Sciences. . . . **Dr. George J. Fitz**, assistant professor of botany, has been awarded \$400 in support of his research on "Terminal Oxidases of Plants" by the Society of Sigma Xi.

Watershed Unit Dedicated

The country's first forest watershed research unit was dedicated at Stone Valley, in Huntingdon County, on Sept. 12 with Maurice K. Goddard, State Secretary of Forests and Waters, officiating, assisted by President Eric A. Walker and Dr. Ralph Marquis, director of the Northeastern Forest Experiment Station.

The research unit consists of three stream gauges and a fully instrumented climatic station. Information gained will be used to draft plans for the management of timber and water in sandstone areas of Pennsylvania.



Summer theatre at Mateer Playhouse, formerly Standing Stone was considered eminently successful. At right, Warren Smith, managing director, at left, confers with director Max Fischer and playwright William Inge.

Playhouse Season Success

The successful eight-weeks program of drama at the Mateer Playhouse at Standing Stone this summer, although experimental in some respects, proved to be fully professional, in the view of Dr. Walter H. Walters, head of the department of theatre arts.

"Neglecting the fact," Dr. Walters adds, "that the project is unique in American universities, we feel that the public was well satisfied with the productions. From an educational standpoint, we think it contributed much to our students. And from the reactions of the professional actors who appeared, the combining of professional talent with our students was highly successful."

Warren S. Smith, associate professor of theatre arts, who was managing director of the Playhouse, points out that the summer practicum for students enrolled in two different 400 courses in theatre arts, proved to be a type of experience they could not have obtained in any other way except in the professional theatre.

"The students associated freely with the professionals," he points out. "They had a real audience, expecting their money's worth from professional talent. They had to meet real deadlines, as they would in any theatre, and they were disciplined in the professional theatre way."

"They probably benefitted greatly, too, from the informal discussions with the professional actors."

The Playhouse schedule was grueling, requiring long hours from everybody concerned, with only Monday as a comparative day of rest. Producing a new play every week was an ambitious schedule, Smith says, especially in attempting to do such plays as *Major Barbara*, *The Chalk Garden*, and the five one-act plays of William Inge.

"We would prefer, for many reasons, to get off the one-week schedule," Smith says, "but we must also face economic facts. If we run a play for two weeks or more it is possible that the total audience would be smaller."

"For the eight weeks, we averaged

80 per cent of capacity, certainly good for summer stock. We know that we drew from Altoona, Huntingdon, Tyrone, Philipsburg, Lewistown, and State College. Much of the increased attendance over that of previous years when the Playhouse was not connected with the University, apparently came largely from State College."

Although the acting experience gained by the students was more obviously important, the production experience was equally useful. In both aspects, the students learned a vital lesson in the discipline of the theatre.

"I doubt that the audience fully appreciates the necessity for this discipline," Smith says, "and, in fact, we do not want them to. If the play seems to be hard work for the actors and staff, then it is probably not a successful production."

Reactions of the professional actors and others of the theatre were favorable. Audrey Wood, president of MCA Artists Ltd., an agent for Inge, attended the premier of the Inge plays and told Smith that the balance the students brought to the plays was good. Arnold Saint Subber, Inge's producer, also commented on the student-professional cast.

The selection of plays, Dr. Walters feels, was excellent, and the experimental nature of the Inge plays, which had their premiere here, was a desirable feature of the program for the summer.

"It is because of the preference for good theatre in this area that we will continue to select a balanced season," Dr. Walters says, "and the enthusiastic public response this season will make it possible for us to select plays which will be most rewarding and challenging to our students and the professional company."

"Not many summer theatres can expect to achieve this balance. We are looking forward to bringing the best plays in all categories, from popular comedy to mysteries, to new plays, and to significant plays by the finest playwrights."

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

- Sept. 28—Dr. Theodore A. Gill, managing editor, *The Christian Century*.
- Oct. 5—The Rev. Preston N. Williams, assistant University chaplain.
- Oct. 12—Dr. Luther H. Harshbarger, University chaplain.
- Oct. 19—Dr. Leslie E. Cooke, associate general secretary, World Council of Churches.
- Oct. 26—Dr. Charles C. Noble, dean, Hendricks Memorial Chapel, Syracuse University.

CONCERTS

- Oct. 5—Jazz Club program by Ted Heath and Orchestra, 8 p.m., Recreation Bldg.
- Oct. 12—Artists' Series program by Danish National Orchestra, 8:30 p.m., Schwab Auditorium.
- Oct. 26—Artists' Series program by Robert Iglesias and Ballet Espagnol, Recreation Building.

DRAMATICS

- Oct. 9-11—Thespian Show, 8 p.m., Schwab Auditorium. "Entertainment U.S.A."
- Oct. 10, 11, 17, 18—Center Stage, "The Druid Circle," 8 p.m. (runs until Nov. 10).
- Oct. 18—Artists' Series presentation of Shakesperian readings by John Gielgud, 8:30 p.m., Schwab Auditorium.
- Oct. 23, 24, 25—Players production of "Two Good To Be True," by G. B. Shaw, Schwab Auditorium.

ATHLETICS

- Sept. 27—Soccer, vs. Bucknell, 1:30 p.m.
- Oct. 4—Cross country, vs. Navy, 1:00 p.m.
- Oct. 11—Soccer, vs. Syracuse, 10 a.m.
- Oct. 11—Football, vs. Marquette, 1:30 p.m.
- Oct. 18—Soccer, vs. Colgate, 1:30 p.m.
- Oct. 25—Football, vs. Syracuse, 1:30 p.m.
- Oct. 25—Cross Country, vs. Michigan State, 1 p.m.

LECTURES

- Oct. 19—The Hon. Richardson Dilworth, mayor of Philadelphia, 8 p.m., 121 Sparks, "Integration in the North."
- Oct. 29—Panel discussion "Integration in the North," 8 p.m., 121, Sparks.

MEETINGS

- Oct. 10-11—Alumni Homecoming.

Research Grants Announced

The following research grants have been announced since July 1. Indicated are the donor, general purpose of the grant, the faculty member in charge of the program and the amount of the grant. Other grants will be listed later.

Royer Foundry and Machine Co., methods of manufacturing parts for sand conditioning machine belts; C. A. Ellsworth and Alan P. Draper, industrial engineering; \$2,500.

Air Research and Development Command, USAF; dynamics and general properties of ionic layers; Ionosphere Research Lab., \$61,000. Also \$35,000 one-year grant for investigations of the lower atmosphere.

National Science Foundation; ionospheric absorption-pulse method; Ionosphere Research Laboratory, \$18,700. Also, \$59,000 grant for continuance of project on Doppler measurements.

Olin Mathieson Chemical Corp., \$900; Monsanto Chemical Co., \$500; Shell Chemical Corp., \$500; Tennessee Corp., \$400; Bertram and Roberta Stein Neuropsychiatric Research Program, \$500; Oxford Royal Mushroom Products, \$250; Michigan Mushroom Co., \$500; all for the research assistance fund, department of botany and plant pathology.

California Spray-Chemical Corp.; evaluation of fungicides; F. H. Lewis; \$975. Also, for fruit insect control studies by Dean Asquith, Arendtsville; \$500.

Union Carbide Corp.; insecticides; Dean Asquith \$975.

Rohm and Haas Co.; insecticides and miticides on fruits; Dean Asquith; \$300.

Union Carbide Chemicals Co.; fruit diseases; F. H. Lewis; \$300.

Stauffer Chemical Co.; apple disease control; F. L. Lewis; \$975.

Olin Mathieson Chemical Corp.; fungicides and mixtures; F. L. Lewis; \$500.

Calendar

Sunday, Sept. 21

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. William P. Muehl, professor of practical theology, Yale University Divinity School.

Monday, Sept. 22

Engineering Mechanics seminar, 4 p.m., 203 Engineering "A". Dr. E. R. Fitzgerald, associate professor of physics, on "Atomic Structures and Mechanical Properties of Solids."

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. R. Wallace Brewster, on "The Problem of the Executive Power in France."

State College Color Slide Club meeting, 7:30 p.m., Mineral Sciences Auditorium. Showing of winners last year.

Tuesday, Sept. 23

Physics Colloquium, 4:10 p.m., Room 117, Osmond Laboratory. Dr. John H. Hoffman, physics department, University of Minnesota, on "Cosmogenic Helium Distribution in Iron Meteorites."

Thursday, Sept. 25

Distinguished Lecture Series in Philosophy, 8 p.m., Room 10, Sparks. Dr. Martin Munitz, professor of philosophy, New York University, on "Historic Trends and Present Outlook in Cosmology."

Graduate School Convocation, 7:30 p.m., Schwab Auditorium. Dr. Vernon Arthur Rice, former dean of the School of Agriculture, University of Massachusetts, speaker.

Friday, Sept. 26

Artists' Series program by New York Pro Musica, 8:30 p.m., Schwab Auditorium.

Movie Production Service Available To Faculty

A service providing for the production of motion picture materials for use in the resident instruction program is now available to faculty members through the Division of Academic Research and Services.

The Division will produce the materials for the cost of film stock, laboratory services and incidental expenses if the films are to be financed from the academic department's regular instructional budget. Labor and overhead charges will be borne by the Division. Films to be used for other than resident instruction or to be financed from outside funds will be subject to individual pricing arrangements.

Those interested in this service are asked to contact D. P. Duvall, Ext. 2514, or L. P. Greenhill, 2606.

Lowden, Young, Minshall, Appledorn Succumb

Dr. Joseph J. Lowden, head of the education extension program since 1949, died on June 20 at the age of 62. Prior to his appointment here he had been superintendent of schools in Ohio from 1931.

Henry B. Young, assistant professor of English composition, died on June 23, at the age of 57. He had received both his bachelor's and master's degrees from Penn State and had served on the faculty since 1926.

Robert E. Minshall, who served on the faculty for 40 years until his retirement in 1953, died on Aug. 14 at the age of 69. He was professor emeritus of civil engineering.

Henry H. Appledorn, professor emeritus of chemistry, died on Aug. 30 at the age of 66. He had served on the faculty for 29 years prior to his retirement in 1952.

Television Program Of University Grows

In addition to the broad program of closed-circuit television now in effect, Penn State is also reaching people all over the State through live and kinescope recorded programs.

Since mid-summer, weekly programs titled "Headline" have been presented each Monday at 7 p.m. on WFBG-TV, Altoona. The program, designed to encourage discussion of current events, makes use of faculty members familiar with the topics discussed, ranging from the Middle East situation to the current Formosa crisis.

The program will continue each Monday in the month of September but be presented on Sunday afternoon thereafter.

A series of kinescoped programs available to stations throughout the State will be shown in the near future. The programs include "Words, Words, Words," describing the work of the Speech and Hearing Clinic; "Listening to the Satellites," with emphasis on the work of the Ionosphere Research Laboratory; "Old Style, New Grad," featuring alumni; and "College Grad Finds a Job," exploring the work of the placement service.

Another program initiated last year titled "Penn State: Its Men and Ideas" will be continued. This is a ten-minute program on Mondays, Wednesdays, and Fridays.

The regular production of the Agricultural Extension Service titled "Farm, Home, and Garden," shown at 12:30 p.m. over WFBG-TV five times each week has continued on a regular basis.

Latest addition to the overall program is the televising of courses in philosophy, psychology, and zoology over WFBG-TV, Altoona.

The courses are offered for correspondence credit to viewers. Dr. Aaron Druckman, associate professor of philosophy, teaches the course in philosophy; Dr. Joseph Grosslight, professor of psychology, and Dr. F. L. Whaley, associate professor of psychology, the psychology course; and Dr. T. H. Cheng, professor of zoology, the zoology course.

Philosophy is being given only for the viewing audience, but the psychology and zoology courses are given by closed-circuit television to classes on main campus and also via WFBG to students on the Altoona and Dubois campuses.

Bust Of Sparks Given By 1911

A bust of Dr. Edwin Earle Sparks, president of the University from 1908 to 1920, will be presented by the Class of 1911 as part of the Homecoming program on Saturday, Oct. 11.

Two years ago the same class presented a bust of the late Dr. Fred Lewis Pattee which is now in the foyer of the Library which bears his name. The bust of Sparks, by the young American sculptor, Allen Harris, will be placed in Sparks building.

Dr. Munitz To Open Series Of Philosophy Lectures

Dr. Milton Munitz, professor of philosophy at New York University and author of such books as "Space, Time and Creation," will open the Distinguished Lecture Series in Philosophy on Thursday, September 25, at 8 p.m. in Room 10, Sparks.

The title of the lecture will be "Historic Trends and Present Outcomes in Cosmology," dealing with various concepts concerning the Universe.

A graduate of New York University, with advanced degrees from Columbia University, Dr. Munitz has taught at CCNY, Queens, Columbia, and Princeton. He is also the author of "The Moral Philosophy of Santayana," "Theories of the Universe," and "A Modern Introduction to Ethics."

Miller Assumes Post As Scheduling Officer

John E. Miller, administrative assistant to the dean of Summer Sessions, has succeeded Ray V. Watkins as University scheduling officer. Watkins retired July 1.

Miller will continue his duties with the Office of Summer Sessions on a part-time basis.

File Applications For Work Abroad By Oct. 1

Applications for U. S. Government awards for lecturing and advanced research in certain countries for the academic year 1959-60 under the Fulbright Act and under the auspices of the Board of Foreign Scholarships and the Department of State must be filed by Oct. 1.

The advice comes from Robert E. Galbraith, Fulbright adviser for the University, who will aid those seeking such awards to make application.

Awards are available for Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, and the United Kingdom, in Europe.

In the Near East and Africa, the awards have been announced for Iran, Israel, Turkey, and the British Colonial Territories in Africa; in the Far East, Republic of China, Hong Kong, Japan, and Singapore.

Medical College Test Listed In October

The next medical college admissions tests will be given on campus on Tuesday, Oct. 28, 8 a.m. to 12:45 p.m., in Room 210, Armsby Building.

Applications for the test accompanied by the \$10 fee must be received by Educational Testing Service, 20 Nassau St., Princeton, N. J. by Oct. 14.

Application blanks and bulletins of information are available from Dr. Leon R. Kneebone, test supervisor, Room 117, Buckhout.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Players Productions Announced For Fall

The complete fall semester program of the Penn State Players has been announced.

At Center Stage, John Van Druten's, "The Druid Circle," will open on Friday, Oct. 10 and will continue each Friday and Saturday evening until Nov. 8. Kelly Yeaton, associate professor of theatre arts, will direct.

On Nov. 21, "The Reluctant Debutante," by William Douglas Home, will open under the direction of Robert Reifsneider. The play will run through Jan. 10.

Productions at Schwab Auditorium include George Bernard Shaw's "Too True To Be Good" on Oct. 23, 24, and 25, under the direction of Warren Smith. On Dec. 4, 5, and 6, Arthur Laurent's "A Clearing in the Wood" will be given, directed by Frank Neusbaum.

Mixed Swimming Scheduled

Faculty and staff members are invited to make use of the Glennland Pool swimming facilities each Monday, from 7 to 9:30 p.m. when mixed swimming is scheduled.

Those interested must purchase a ticket at \$2.50, from the office of the bursar in Willard Building. The program began last Monday.

Senate Meets Thursday

The University Senate will hold its initial meeting of the academic year on Thursday, Oct. 2, at 4:10 p.m. in the assembly room of the Hetzel Union Building.

Headlight Features Poet Amy Bonner

Copies of the current issue of *Headlight On Books*, issued by the Library, are available to interested faculty members at the Office of the Librarian and Readers' Service, Pattee Library. The current issue of *Headlight* is titled, "Amy Bonner, Poet and Friend of Poets."

Euwema Chairman Of Artists Series

Dr. Ben Euwema, dean of the College of the Liberal Arts, has been named temporary chairman of the Artists Series Committee. He succeeds Albert Christ-Janer, who resigned as director of the School of the Arts to accept a position at Pratt Institute.

The first presentation of the 1958-59 Artists Series will be held tonight at 8:30 p.m., with the ensemble group, New York Pro Musica, featured. The second number on the program is scheduled for Sunday, Oct. 12, with the Danish Symphony Orchestra.

President To Discuss Television Teaching

President Eric A. Walker and Lawrence E. Dennis, vice-president for academic affairs, will discuss the use of television in teaching at the 41st annual meeting of the American Council on Education in Chicago, Ill., on Oct. 9-10.

Dr. Walker is a member of a panel that will discuss "Improved Technical Aids to Teaching."

Graduate Record Exam

The next Graduate Record Examinations will be held on campus Saturday, Nov. 15. Applications must be received by Educational Testing Service, 20 Nassau St., Princeton, N.J., no later than Oct. 31. Dr. Leon Kneebone, test supervisor on campus, Room 117, Buckhout Laboratory, has additional information as well as application blanks.

Language Tests Listed

Graduate students who have previously passed their preliminary oral language tests but failed the written examination are advised to register for the regular written examination on Nov. 3 no later than Oct. 6 in Room 227 Sparks, for the German test, and Room 300 Sparks, for French and Spanish tests.

MacKenzie Gives Up Vice President Post

Ossian MacKenzie, dean of the College of Business Administration, has been relieved of his additional duties as vice president for business administration at his own request, to devote full time to his deanship.

Dean MacKenzie came to Penn State in 1953 from Columbia University. In 1956 he was named special assistant to the president for business affairs and a year later his title was changed to vice president for business administration.

President Eric A. Walker said he hopes to present the name of the new candidate for the vice presidency at the next meeting of the Board of Trustees.

English Teachers Meeting Today

The second annual Conference of the Pennsylvania Council of Teachers of English will be held today and tomorrow at the Hetzel Union Building.

Main speaker for the meeting is Moses Hada, professor of Greek at Columbia University, who will address the Saturday luncheon on the subject, "The Permanence of the Classics."

Monetary Fund Official Teaches Political Science

Dr. Ervin Hexner, native of Czechoslovakia and former official of the International Monetary Fund, is serving as visiting professor of political science.

The Fund grew out of the international financial agreements formulated at Bretton Woods, N.H. Dr. Hexner participated in the preparation of the agreements and joined the Fund staff in 1946. He retired from his position as assistant general counsel Sept. 1.

Dr. Hexner, who lectured in administrative law at the University of Bratislava from 1931 to 1939, is conducting a seminar in "International Relations" and teaching a course in "International Organization."

Senate Minutes

ANNUAL REPORT SENATE COMMITTEE ON COURSES OF STUDY 1957-58

During the academic year 1957-58 the Courses of Study Committee met twenty-one times for a total of forty-two hours. Members, moreover, devoted additional time to private study of proposals before the Committee; and the chairman and secretary spent several times the number of hours devoted to meetings to preparing for meetings, processing actions taken at meetings, and attending to correspondence, conversations, and reports.

At some half dozen meetings proponents of various proposals were present to present pertinent data. One of the most important and profitable of these meetings dealt with the question of control of the rapidly increasing number of courses in programming and processing for computers. The Committee recommended adoption of three additional courses in this general area for a limited period of three years, at the expiration of which time they are to be reviewed in the light of new developments and new requirements; there was also sentiment in favor of appointing a subcommittee of experts in the field to advise the Committee on future proposals in line with its desire to promote orderly development of this new field.

For the first time within knowledge the Committee carefully reexamined and re-evaluated an existing curriculum together with its constituent courses of study and recommended appropriate action on the basis of its findings.

Total actions taken are set forth in the following tables:

COURSES ACTIONS, 1957-58

College	Added			700 800 900	Dropped			700 800 900	Changed			700 800 900	Total Action
	Under-graduate	400	500		Under-graduate	400	500		Under-graduate	400	500		
Ag	—	3	6	2	1	3	2	—	8	3	3	1	32
Bus Ad	2	3	—	—	3	2	—	—	7	1	2	—	20
C & P	—	—	—	14	—	—	—	—	5	3	8	—	30
Ed	3	1	3	—	2	—	6	—	10	15	20	—	60
E & A	3	3	4	1	2	4	1	2	25	17	4	1	67
H Ec	1	—	—	16	—	1	—	—	—	—	—	—	18
L A	7	12	10	—	5	4	2	—	40	22	3	—	105
M I	11	13	20	—	10	9	21	—	6	22	4	—	116
Ph Ed	—	—	—	—	—	—	—	—	—	4	—	—	4
R O T C	—	—	—	—	—	—	—	—	5	—	—	—	5
Totals	27	35	43	33	23	23	32	2	106	87	44	2	457

The figures in the foregoing table, which represents only those actions independently proposed in various sections of the University, are to be corrected by actions on already existing courses mandated by the Senate actions discontinuing approval of courses for extension and/or correspondence; accordingly, the corrected table reads:

Correspondence, accordingly, the corrected table reads:												
Added				Dropped				Changed				Total Action
Under-graduate	400	500	700 800 900	Under-graduate	400	500	700 800 900	Under-graduate	400	500	700 800 900	
33	40	43	33	66	35	32	2	134	104	50	2	

The first table above, showing 105 courses added and 78 dropped, reveals a net gain of 27 courses for the year; however, when these figures are corrected by those of the second table, which shows 116 courses added and 133 dropped, the result is a net loss of 17 courses for the year.

Research Grants Listed

The following grants for research are in addition to those listed in previous issues.

U. S. Army Department of Ordnance; gasoline engine injection system; A. W. Hussman, engineering research; \$14,650.

Atomic Energy Commission, chemical compounds in fused salts at elevated temperature; Joseph Jordan, chemistry; \$13,540.

U. S. Public Health Service; voltammetry of oxygen and carbon dioxide; Joseph Jordan; \$14,283.

U. S. Navy, Training Devices Center; learning with visual and auditory aids; C. R. Carpenter, division of academic research and services; \$21,667.

Fund for Advancement of Education; use of students as teachers; C. R. Carpenter; \$40,600.

Eastern States Farmers' Exchange; sheet metal roofing materials; H. D. Bartlett, agricultural engineering; \$5,200.

National Science Foundation; silicate systems and watercarbonate systems; O. Frank Tuttle, earth sciences; \$10,000.

Army Ordnance and Corps of Engineers; cold weather operation of diesel engines; W. E. Meyer, mechanical engineering; \$22,500.

Air Research and Development Command; wind motions in the lower atmosphere; A. K. Blackadar, meteorology; \$10,073.

Actions Relative to Programs of Study Including Curriculums, Majors, Options, and Others 1957-58

College	Added	Dropped	Changed	Totals
Ag	—	—	5	5
Bus Ad	—	—	3	3
C & P	1 (2-Yr.)	—	2	3
Ed	—	—	6	6
E & A	—	—	12	12
H Ec	1 (2-Yr.)	—	—	1
L A	2	—	10	12
M I	—	—	15	15
Ph Ed	—	—	—	—
R O T C	—	—	—	—
	4	—	53	57

Discussions in the Committee of general topics resulted in several kinds of actions. The problem of the definition and nature of 400 courses is a subject of continuing discussion. The question of the definition and nature of seminars and their relationship to nonthesis research and special problems and projects courses is being referred to both the Faculty and the Courses of Study Committee of the Graduate School for their study and consideration; the subject of Senior Seminars is to be further discussed in the future by the Senate Committee on Courses of Study, especially since it is likely to become increasingly important upon official adoption of honors programs throughout the University. In view of the fact that the limited approval originally given to the General Education Program expires in the Spring of 1959, necessitating a re-examination of the Program by the Committee, the Committee is also requesting the Committee on Educational Policy to undertake a study of additional means of implementing the action of the Senate in October, 1954, approving in principle a policy of providing for General Education.

Respectfully submitted,
Philip A. Shelley,
Chairman

May 29, 1958

Items of Interest

Dean M. A. Williamson, of the College of Engineering and Architecture, was re-elected secretary-treasurer of the Conference Committee of the National Conference on the Administration of Research and elected a member of the committee for a five year term at the meeting of the conference recently . . . **Sheldon C. Tanner**, professor of business law, is the author of the 6th edition of "Business Law under the Uniform Commercial Code," a study of the new commercial code in the American legal system . . . **Dr. Vernon V. Aspaturian**, associate professor of political science, was chairman of a round table on international relations at the annual meetings of the American Political Science Association recently; **Dr. Frank J. Sorauf**, assistant professor, served on a panel on social conflict; and **Dr. M. Nelson McGeary**, professor, served on a panel on Congressional investigations.

Bernard P. Taylor, executive director of the Penn State Foundation, has been appointed to the national educational fund-raising committee of the American Alumni Council . . . **Dr. Eugene T. McDonald**, director of the Speech and Hearing Clinic, has been named to the Governor's Committee on Handicapped Children by Gov. Leader . . . **Wesley P. Winter**, assistant professor of industrial engineering, is co-author of a textbook titled "Introduction to Foundry Technology," with Dr. D. C. Ekey, former faculty member now professor of industrial engineering at Georgia Tech.

Dr. Richard M. Colwell, lecturer in accounting, is the author of the book, "TV Lecture Guides" published recently. The book is intended to accompany televised lectures in introductory accounting . . . **Dr. William M. Smith, Jr.**, professor of family relationships, was recently appointed editor of a department devoted to assisting high school teachers in the publication, "Marriage and Family Living." He has been appointed 1958-59 chairman for the National Council on Family Relations section on Education for Marriage and Family Living in the Colleges . . .

Charles M. Speidel, wrestling coach and professor of physical education, is co-author of "Championship Wrestling," a revised edition of the Navy V-5 Physical Education Series, published recently by the U.S. Naval Institute . . . **J. W. Hunt**, associate professor in charge of mineral engineering extension, will preside over the general session of the sixth annual general meeting of the Mining Electro-Mechanical Maintenance Association tomorrow . . . **Dr. Joseph Krawiec**, assistant professor of clothing and textile research, has been reappointed special consultant to the Committee on Laundry Management of the American Hospital Association . . .

Retirees Davey, Cohen Still Active On Campus

Dr. Wheeler P. Davey, left, and Gustav E. Cohen, both retirees, are still very active in chemistry with the compilation and interpretation of data on chemical crystals for the ASTM-supported X-ray Data File.



A FEW months ago, the Georgia State Police turned to an unusual office on campus for help in identifying a set of "fingerprints" in the solution of a mystery.

The fingerprints were not those of a human being but of a chemical which played a part in the case under investigation. Just as surely as though they had been fingerprints of a person, however, Dr. Wheeler P. Davey, professor emeritus of chemistry, and his associates came up with the identity of the "suspect."

Generally speaking, Dr. Davey and his colleagues, Gustav E. Cohen and Arthur S. Beward are concerned in the less dramatic requests for help from the chemical industry or research laboratories, but the effects of their work are no less important.

Identification of chemicals means dollars and cents in many situations. Each chemical crystal, it was discovered about a half-century ago, has an identifying pattern when exposed to x-rays. No other physical factors are as exacting as these x-ray patterns. By the relatively simple process of comparing the patterns of an unknown sample with that already known, just as in fingerprinting, the crystal can be properly labeled. Other methods of identification might take many hours, without the equivalent certainty of the x-ray method.

"One advantage of this method," says Dr. Davey, "is that only a very small sample of the chemical is needed for identification and there is no need to

destroy the sample in making the identification."

The actual x-ray patterns are done in laboratories all over the world and sent to the X-ray Powder Data File office. If the pattern is apparently that of a new crystal, one of the editors connected with the work will search the existing file to make certain it is not already catalogued. These editors, specialists in certain other fields, assist the office not only in this search but also in putting out the voluminous index book which lists the 7,000 crystal patterns already thoroughly studied.

The office on campus, supported in entirety by the American Society for Testing Materials, is a central collection agency for the x-ray patterns developed elsewhere and does no x-ray work itself. It transcribes the information to cards which are later printed and also makes up the book index accompanying the cards. The cards and book are cumulative, year after year.

"The x-ray method," explains Dr. Davey, "is useful not only for pure materials but also mixtures, within limitations, of as many as three substances."

Most of the requests for assistance come from research laboratories and the x-ray patterns themselves are sent by organizations such as Eli Lilly Co. and the Oak Ridge National Laboratories in this country, and the (British) Institute of Physics abroad.

Dr. Davey's interest in the x-ray diffraction method of studying crystals dates from his years as a research physicist for the General Electric Co. from

1914 to 1926. Although he did not develop the method he is known internationally for his work with it, and in 1952 the ASTM honored him with its Award of Merit for his leadership in the work.

In 1942, working with the basic file of data collected by the Dow Chemical Co., Dr. Davey undertook the task of indexing the available material and preparing a card file system which is now internationally used. On his retirement in 1949, the ASTM asked him to continue the work.

Mr. Cohen, who taught chemistry for 25 years until his retirement in 1947, has been helping in the project since 1951. Beward, graduate of Penn State in 1942, has been associated with the work since 1948.

The office's only connection with the University is the fact that it has space in Osmond Laboratory. For Dr. Davey and Mr. Cohen the work permits them to continue their lifelong interest in chemistry, even in retirement.

Other Appointments Listed

The following additional appointments to the faculty have been announced:

Dr. Peirce F. Lewis has joined the staff of the department of geography as assistant professor. For the past year he has held a post-doctoral National Science Foundation Fellowship at the University of Washington, studying geomorphology. He received the doctor of philosophy degree from the University of Michigan.

Dr. Christopher Crowe, assistant professor of geophysics and geochemistry, has been engaged in research at Cambridge University, England. Educated in Montreal and Port Hope, Ontario, Canada, Dr. Crowe received his bachelor of science and doctor of philosophy degrees in mathematics and physics from the University of Western Ontario.

Russell P. Kaniuka, assistant professor of agricultural journalism, who received his master's degree in agricultural journalism from the Iowa State College in June. He was employed for two years by the Lincoln Electric Co. in vocational agricultural training work. He is a 1952 graduate of Penn State.



A. S. Beward, graduate of the University in chemistry, assists Dr. Davey and Cohen in their work on the X-ray Data File.

Calendar

Friday, Sept. 26

Artists' Series program by New York Pro Musica, 8:30 p.m., Schwab Auditorium.
Meeting of faculty of College of Agriculture, 4:15 p.m., Room 109, Armsby Building.

Saturday, Sept. 27

Varsity soccer, versus Bucknell, 1:30 p.m., Beaver Field.

Sunday, Sept. 28

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Theodore A. Gill, managing editor, *The Christian Century*.

Protestant service of worship, 9 a.m., The Chapel. H. Richard Dulin, Danforth intern, University Christian Association, the speaker.

Monday, Sept. 29

Faculty Luncheon Club meeting, 12 noon, dining room "A," Hetzel Union Building. Dr. Robert T. Oliver, head of department of speech, on "Korea."

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A." Dr. E. R. Fitzgerald, associate professor of physics, on "Atomic Structures and Mechanical Properties of Solids."

Tuesday, Sept. 30

Science Institute for Teachers, 4:10 p.m., Room 112, Buckhout. Dr. D. E. Kibbey, chairman, department of mathematics, Syracuse University, on "The Mathematical Education of Scientists."

Meeting of Penn State chapter of American Society for Metals, 7:30 p.m., Delta Sigma Phi fraternity.

Physics Colloquium, 4:15 p.m., 117 Osmond Laboratory. Dr. C. R. Burnett, associate professor of physics on "Some Experiences in Controlled Fusion Research at Project Matterhorn."

Thursday, Oct. 2

Senate meeting, 4:10 p.m., assembly room, Hetzel Union Building.

Chemistry colloquium, 1:10 p.m., Room 119, Osmond Laboratory. Dr. G. A. Olah, Dow Chemical Co. of Canada, on "Complex Salts of Organic Cations."

Next Month

CONCERTS

- Oct. 5—Jazz Club program by Ted Heath and Orchestra, 8 p.m., Recreation Bldg.
- Oct. 12—Artists' Series program by Danish National Orchestra, 8:30 p.m., Schwab Auditorium.
- Oct. 26—Artists' Series program by Robert Iglesias and Ballet Espagnol, Recreation Building.
- Nov. 2—Artists Series program by Guiomar Novaes, Schwab Auditorium, 8:30 p.m.

DRAMATICS

- Oct. 9-11—Thespian Show, 8 p.m., Schwab Auditorium. "Entertainment U.S.A."
- Oct. 10, 11, 17, 18—Center Stage, "The Druid Circle," 8 p.m. (runs until Nov. 8).
- Oct. 18—Artists' Series presentation of Shakesperian readings by John Gielgud, 8:30 p.m., Schwab Auditorium.
- Oct. 23, 24, 25—Players production of "Too True To Be Good," by G. B. Shaw, Schwab Auditorium.

ATHLETICS

- Oct. 4—Cross country, vs. Navy, 1:00 p.m.
- Oct. 11—Soccer, vs. Syracuse, 10 a.m.
- Oct. 11—Football, vs. Marquette, 1:30 p.m.
- Oct. 18—Soccer, vs. Colgate, 1:30 p.m.
- Oct. 25—Football, vs. Syracuse, 1:30 p.m.
- Oct. 25—Cross Country, vs. Michigan State, 1 p.m.
- Nov. 1—Football, vs. Furman, 1:30 p.m.

LECTURES

- Oct. 19—The Hon. Richardson Dilworth, mayor of Philadelphia, 8 p.m., 121 Sparks, "Integration in the North."
- Oct. 29—Panel discussion "Integration in the North," 8 p.m., 121, Sparks.
- Oct. 31—Distinguished Lecture Series in Philosophy. Very Reverend Martin Cyril D'Arcy, S.J., M.A.

MEETINGS

- Oct. 10-11—Alumni Homecoming.

Research Council Grants Announced

A partial list of grants for research for the current academic year as announced by the Council on Research. Others will be listed in a later issue.

College of Agriculture

Smith, E. W. (Behrend Center), Life Histories of Pennsylvania Bats.

College of Business Administration

Martin, W. H., The Chemicals Industry; A Study in the Dynamics of Competition; Mason, W. E., The Concept of a Monetary Standard; Newman, M., The Meaning of "Unavailable for Work" Under the Pennsylvania Unemployment Compensation Act; Saylor, R. B., The Pennsylvania Economy; Stoyler, J., A Study of the Response of Livestock Production and Prices to Changes in the Production and Prices of Livestock Feeds; Tseng, C. P., The Second Five Year Plan of Communist China (1958-1962); Werboff, L. L., External Financing of Capital Expenditures; Williams, A. L., Term Buyer.

College of Chemistry and Physics

Benson, J. E., A Critical Evaluation of the Influence of Samuel Parkes (1761-1825) on the Current Ideas in Chemistry During the Chemical Revolution of the Early 1800's; Goodman, L., Lifetimes of Metastable Electronic States of Small Molecules; Haas, C. G., Dipole Moment Studies on Coordination Compounds; Skell, P. S., Stability of Vinyl Radicals; Willard, M. L., Preferential Absorption of Light by Small Crystals; William, E. T., A Study of Fluidized-Bed Techniques for the Production of Uranium Tetrafluoride (Green Salt).

College of Education

Brown, H. S., The Development of an Acceptable Method of Assessing Merit in the Faculty of the College of Education; Chiappetta, M., Changes in Self-Concept as Measured by a Self-Portrait and a Personality Inventory; Chomicky, Y. G., A Familiarization with Fibreglass and Resins in Designing a Technical Approach Toward an Introduction of the Process as a Sculptural Medium in Schools; Davison, H. M., Validation of Quality of Education Score Card for Junior and Senior High School Classes; Grosslight, J. H., Mechanisms of Extinction: Extinction Via Unreinforced Elicitations Versus Extinction Via Acquisition of a Competing Response; Guest, L., An Analysis of Correlates of Deviant Responses in a Guttman Type Attitude Scale; Guthrie, G. M., Response to Subliminal Stimuli as a Paradigm of Personality Mechanisms. Hall, J. F., The Learning and Forgetting of Meaningful Material; Hoffman, H. S., Punishment versus Extinction in the Control of Behavior; Mattil, E. L., The Use of Centrifugal Investment Casting in Silver as Part of a Program in Advanced Crafts; Oxhandler, E., An Investigation of Some Possible Applications of Subliminal Perception Techniques to Film Learning; Pappas, G., The Use of Polyvinyl Acetate Emulsions as Painting Media; Pendered, U. C., Principles for Arranging, Mounting, and Storing Hand Tools in Industrial Arts Shops; Piers, E. V., Factors Related to creativity in Intellectually Gifted Children; Prokasy, W. F., Modifications in Rate of Responding Prior to Reinforcement as a Function of Different Intervals of Reinforcement; Ray, W. S., Concept Formation in the Learning of Statistics; Russell, D. W., Survey of Methods of Reporting Pupil Progress in the Elementary Grades to Parents.

Slivinske, A. J., Factors Related to Physiological Stress and Electrical Activity of the Brain of the Albino Rat; Snyder, W. U., An Analysis of Relationship Factors in Psychotherapy; Stover, R. E., Development of a Method of Attitude Scale Construction to Provide Unidimensional Measurement of Relatively Homogeneous Populations Over Extended Periods of Time; Torkelson, G. M., A Study to Determine the Levels of Picture Reading Ability Among Children with Varying Degrees of Intelligence and to Evaluate the Relative Effectiveness of Various Factors of Pictorial Representation Such as Color, Composition and Iconicity; Veon, D. H., Extra-Classroom Activities Performed by Business Teachers in Secondary Schools in Pennsylvania for which Special Teacher Preparation would be Advantageous.

College of Engineering and Architecture

Crossley, G. L., Vertical Radio Antenna for Variable Frequency Applications (Broad Band Antenna); Gotolski, W. H., Effect of High Temperatures on a Rheological and Structural Properties of Asphaltic Concrete Pavements; Knappenberger, H. A., Statistical Classification of Foundry Molding Sand; Marin, J., Cumulative Damage in Fatigue; Oppel, G. U., Thermal Stress Analysis by Photoelasticity; Smith, C. J., Shaver Creek Hydrologic Study; Thuerling, G. L., Study of Motion Variation on Motion Time.

College of the Liberal Arts

Adolf, H., Studies of The Grail Legend, East and West; Ayoub, R. G., Travel Grant to Attend International Congress of Mathematicians in Edinburgh; Barth, J., Ebenezer Cooke, Poet Laureate of Maryland; Bleznick, D. W., The Political Theme in the *Comedia* of the Spanish Golden Age; Boe, A. A., A Monograph on the Norwegian Expressionist Painter, Edvard Munch; Boyer, W. E., Pennsylvania German Folk Art; Brown, I. V., Joseph Priestley: An Anthology of His Writings; Brubaker, R. S., Individual Differences in the Perception of Synthetic Syllables; Buffington, A. F., The Pennsylvania German Dialect and Folklore; Carter, E. S., Potentialities of Modern Heuristic for the Designing of Research Studies, Especially in the Speech Arts and Sciences; Dahmus, J. H., William Courtney, Archbishop of Canterbury, 1381-1396; deLevie, D., Studies in 18th Century German Intellectual History and Literature.

Dickson, H. E., George Grey Barnard, American Sculptor; Dupree, L., Excavations at Deh Morasi Ghundai, Afghanistan; Fife, I., Studies in British Public Address; Harootunian, H., Yokoi Shonan and the Ideological Foundations of Modern Japan; Hassler, W. W., A Study in the Union High Command During the American Civil War; Hyslop, F. E., Monograph on the Work of the 19th Century Belgian Painter, Henri Evenepoel; Hyslop, L. B., Baudelaire as a Critic and a Prose Writer; Iseman, C. D., Research Toward the Development of a More Efficient and Economical Scene Paint; Johnstone, H. W., Philosophy and Argument; Lee, L. T., Communist China and International Law.

Markham, J. W., A Study of the News from Central and South America in the Western Press; McGeary, M. N., Gifford Pinchot: Forester-Politician (a biography); McNall, N. A., John Greig, Land Speculator and Speculators' Agent of New York State; Murray, R. K., The Turbulent Years: American Democracy at the Crossroads; Peck, L. F., A Biography of Matthew G. Lewis (1775-1818); Reed, R. R., The Witch and Demon of Shakespeare's World; Rosen, S. H., Alcibiades: The Socratic Critique of Individualism.

Rubin, J. J., A Study of Herman Melville's *Battle Pieces*; Shelley, P. A., Lewis, A. O., Volume Three of Anglo-German and American-German Crosscurrents; Smith, G. R., Shakespeare Bibliography, 1936-1956; Spence, C. C., The Western Mineral Frontier and its Promotion at Home and Abroad, 1849-1900; Post-Civil War Careers of General Officers; Stannard, J., Studies in Plato's *Dialectic*; Suiter, J. E., (Pottsville Center), English Poetic Theory, 1850-1890.

Thaden, E. C., Conservative Nationalism in Tsarist Russia, 1800-1905; Weintraub, S., The Maturing of Bernard Shaw's *Immaturity*; Weisman, K., The Origins of the Skyscraper; Wittman, N. E., The Introduction of Foreign Languages (especially German) in the Elementary Schools of Pennsylvania; Yeaton, K., Development and Use of Synchronized Tape Recording and Photography as a Research Tool; Zelko, H. P., Communication in Industrial Organization—A Case Study of a Large Research Laboratory of the E. I. du Pont de Nemours Company.

College of Mineral Industries

Davis, H. M., Rate of Reaction of Steam with Ferrous Metals at Elevated Temperatures; Deasy, G. F., Field Study of the Geographical Aspects of Coal Mining in Utah; Griess, P. R., The Effects of the Recent Land Redistribution Program on the Agricultural Economy of Bolivia; Hosler, C. L., Ice Nucleating Ability of Dilute Solutions; Lovell, H. L., Preparation of (Ethylenedinitrilo) Tetraacetic Complexes of the Rare Earth Elements; Read, H. J., The Determination of Ductility in Electrodeposited Metals as Related to Corrosion Processes; Ridge, J. D., International Trade in Mineral Raw Materials; Rodgers, A. L., The Industrial Geography of the Kuznetsk Basin; Roy, R., Continuation of Reference Mineral and Reference Mineral Powder X-Ray Diffraction File in the Division of Earth Sciences; Sun, S. C., Magnetic Properties of Minerals; Wernstedt, F. L., A Geographical Analysis of Population Problems of the Philippine Islands.

College of Physical Education and Athletics

Swegan, D. B., An Investigation of Pre- and Post-Exercise Urine-Lactate and Blood-Lactate Responses to Maximal Exercise.

Pattee Library

Fishbein, E. P., Wescott, E. C., Scientific and Technical Reports: A Bibliography of Bibliographies.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Danish Orchestra Feature Of Artists Series Oct. 12

The Danish National Orchestra, with conductors Thomas Jensen and John Frandsen, will present the next program of the Artists Series on Sunday, Oct. 12 at 8:30 p.m. in Recreation Building.

Sale of tickets for non-students will be held Wednesday, Oct. 8, to Sunday, Oct. 12, from 9 a.m. to 12 noon and 1 to 5 p.m. at the Hetzel Union Building desk.

The Orchestra received an enthusiastic response on its previous American tour in 1952. In the six-weeks tour at that time 39 concerts were given in leading cities in the eastern half of the country.

The tour is sponsored by the American Scandinavian Foundation. The program will include works by Mozart and Sibelius and the Symphony No. 2 by the Danish composer, Carl Nielsen.

Two Added To Staff Of Architecture Dept.

Walter C. Reis, practicing architect in Sweden, Chile, Czechoslovakia, and in San Francisco for many years, has been named visiting associate professor of architecture, and Gifford H. Albright, Penn State graduate, assistant professor of architectural engineering.

Reis, a graduate in architecture from the German Technical University of Brno, Czechoslovakia, holds the equivalent of a master of architecture degree from the German Technical University of Prague and a master of fine arts from the Academy of Fine Arts in Vienna. He is the author of numerous articles on architecture in professional journals in Austria and Germany.

Albright holds the degree of master of science from Massachusetts Institute of Technology in building engineering and construction materials management. He served as nuclear test project officer at the U.S. Naval Civil Engineering Laboratory at Port Hueneme, Calif. He is the author of a number of technical publications.

Dr. Heaton To Give First Liberal Arts Lecture

Dr. Herbert Heaton, distinguished visiting professor of history, will present the first Liberal Arts lecture of the year on Tuesday, Oct. 7, at 8 p.m. in Room 121, Sparks Building.

His subject will be "Other Wests Than Ours."

Born in Yorkshire, England, Dr. Heaton received his degrees from the University of Leeds and also attended the London School of Economics and received the degree of master of commerce from the University of Birmingham. His teaching career has taken him to Leeds and Birmingham, University of Tasmania in Australia and also the University of Adelaide. While in Australia he served as president of the Workers Educational Association of Australia.

In 1925, Dr. Heaton was named head of the department of history at Queens University, Kingston, Ont., and two years later was appointed professor of economic history, University of Minnesota and for the past four years he has been chairman of the department of history.

Widely known for his text, "The Economic History of Europe," Dr. Heaton has also written, "Scholar in Action: Edwin F. Gay," "Anglo-American Trade and Migration," and other books.

Van Druten Play Is Players' Production

The first production of the fall semester by the Penn State Players will be John Van Druten's "The Druid Circle" at Center Stage beginning Friday, Oct. 10 at 8 p.m. and continuing each weekend until Nov. 8.

The play, to be directed by Kelly Yeaton, associate professor of theatre arts, is considered one of the author's best plays. It tells of the embittered professor who nearly wrecks the lives of two students who are in love.

Tickets for the play will go on sale at the Hetzel Union Building desk at 1:30 p.m. on Monday, Oct. 6.

Thespians Present New Musical Comedy Oct. 9-11

An original musical comedy titled "Entertainment, U.S.A." will be presented by the Penn State Thespians on Thursday through Saturday, Oct. 9-11 at 8 p.m. in Schwab Auditorium.

Tickets for the Thursday performance are priced at \$1.25 and for the Friday and Saturday shows are \$1.50. They will go on sale at the Hetzel Union desk on Monday, Oct. 6, at 1:30 p.m.

The show is built around the forms of entertainment found in this country, including orchestra rehearsals, production of Romeo and Juliet by a little theatre group, and many others.

Music and lyrics for the show were written by Stan Epstein and Ray T. Fortunato. Orchestrations are by Frank F. Morris.

Dr. John To Open UCA Lecture Series

Dr. M. E. John, head of the department of agricultural economics and rural sociology, will present the first lecture in the 1958-59 University Christian Association series on "The Responsible University in an Age of Crisis."

Dr. John will speak on, "The Role of Personal Bias in Scholarly Work," on Wednesday, Oct. 8 at 8 p.m. in the main lounge of the Helen Eakin Eisenhower Chapel.

Dr. Kenneth Bennett, professor of agricultural statistics, and Dr. Robert K. Murray, associate professor of history, will discuss Dr. John's paper.

On Oct. 22, Dr. Jessie R. Bernard, professor of sociology, will present the second paper in the series, on the subject, "The Role of Citizenship Bias in Scholarly Work." The third and final paper will be presented by Robert E. Tschan, assistant dean of the Graduate School, on Nov. 8. He will speak on "The Poverty of Understanding in Modern Scholarship."

Faculty and staff members and all graduate students are invited to the three lectures.

National Defense Education Act

(Ed. Note: The following very brief explanation of the National Defense Education Act appeared in the recent issue of the Pennsylvania Department of Public Instruction "Newsletter" and is presented through the courtesy of the Department.)

Title One — General Provisions

Congress declares that the security of the Nation requires the fullest development of the mental resources and technical skills of its youth. Talent in youth must be identified and educated regardless of pupils' economic status. The states and local districts must retain control over public education; Federal control is prohibited. Education requires increased effort at all levels of government.

Title Two — Loans to Students in Institutions of Higher Education

Funds will be received by the institutions directly from the U.S. Commissioner of Education. Money is to be allocated to the states in proportion to each state's full-time college and university enrollment relative to the total university enrollment in the United States. No institution may receive more than \$250,000 in any single fiscal year; an institution's loan fund will consist of Federal money of which the institution must pay an amount equal to not less than one-ninth of the Federal Contribution. The maximum loan to any full-time student in good academic standing is \$1,000 per year; \$5,000 is the maximum amount available to any student. The interest rates on loans is 3%. Loans must be repaid in ten years with payments and interest beginning the first year after graduation. Preference for loans will be given to prospective elementary and secondary school teachers (public or private) or to those who indicate superior capacity in science, mathematics, engineering, or a modern foreign language. For each year that a student teaches in a public elementary or secondary school, 10% of the loan will be forgiven up to a maximum of 50%. (The cost of this provision will be borne by the Federal government, NOT the institution.) The term, "institution of higher education," is specifically defined in the Act.

Title Three — Financial Assistance for Strengthening Science, Mathematics, and Modern Foreign Language Instruction

Money is provided for equipment, audio-visual aids, and printed materials (other than textbooks) for instruction in science, mathematics, and modern foreign languages. Money is provided for minor remodeling of laboratory or other space used for the above-mentioned equipment and materials. Money is also provided for the expansion or improvement of supervisory or related services in public elementary or secondary schools. Allotments to the states

will be made on the basis of total personal income of each state, number of school-age children in each state, all in relation to figures for the Nation as a whole. Part of the total allotment under Title Three will be set aside by the Commissioner of Education each year for low-interest loans of up to ten years to private, non-profit elementary and secondary schools. These schools must submit plans to the Commissioner prior to approval for loans. None of the money allocated can be used for new buildings. All money spent in a state must be for projects approved by the state education department in accordance with a state plan approved by the U.S. Office of Education.

Title Four — National Defense Fellowships

The purpose of Title Four is to provide more college and university teachers. The Commissioner of Education is authorized to grant 5,500 fellowships directly to institutions during the next four years (1,000 between now and next June 30, 1,500 each year for the next three years). The fellowships are for not more than three academic years of graduate study, amounts each year as follows: \$2,000 first year, \$2,200 second year, and \$2,400 for the third year plus \$400 each year for each dependent. The Commissioner will pay each institution up to \$2,500 for each graduate student who gets a fellowship. The Commissioner will approve a graduate program for awarding of fellowships provided the program is a new one or an existing one that has been expanded; provided the program will substantially increase the facilities available for the graduate training of college- or university-level teachers; provided the program will give preference to students interested in college or university teaching.

Title Five — Guidance Counseling and Testing: Identification and Encouragement of Able Students

The purpose of Title Five is to establish programs of testing, guidance, and counseling; the testing program will identify students of outstanding ability, while the guidance and counseling program will advise students on the courses best suited to their abilities and encourage students of outstanding ability to enter institutions of higher education. No state money need be provided for the first year of operation; however, all Federal money allocated after the first year must be matched. The state education department must devise a satisfactory state plan for testing, guidance and counseling prior to receiving Federal money. In the section dealing with testing, the Act states that the program is to be for public secondary schools and "if authorized by law, other secondary schools." The section on guidance and counseling,

however, refers only to public secondary schools. Short-term or regular institutes are to be established to improve the qualifications of personnel engaged in guidance work in secondary schools or for the training of secondary teachers who plan to enter guidance work. Any teacher who attends such institutes will receive \$75 per week for each week of attendance, plus \$15 per week for each dependent.

Title Six — Language Development

The teaching of modern foreign languages will be improved through the establishment of language and area centers and of language institutes set up at college and universities through direct contact with the Commissioner of Education. Specific criteria are set forth in the Act relative to determining whether or not a language center should be set up at a particular institution. Federal money would be matched by the institution on a 50-50 basis. Stipends are provided for students who take work at such centers provided they will teach at an institution of higher education or enter other public service. Money is provided for research on the need for increased or improved instruction in modern foreign languages and to conduct research on more effective teaching methods. Institutes will be established for individuals who are engaged in, or preparing to engage in, the teaching, or supervising, or training teachers, of any modern foreign language in elementary or secondary schools. The training would deal particularly with the use of new teaching methods and instructional materials. The government would bear the entire cost after the institute had been set up by contract between the institution of higher learning and the government.

Title Seven — Research and Experimentation in More Effective Utilization of Media for Educational Purposes

The purpose of Title Seven is to foster experimentation involving television, radio, motion pictures, and related media which may be proven of value to state and local educational agencies. New and more effective techniques and methods will be sought for (1) utilizing and adapting many types of audio-visual aids for educational purposes, (2) training teachers to use effectively various types of audio-visual aids, and (3) presenting academic subject matter through audio-visual media. All contracts or grants for experimentation must be approved by the Commissioner of Education and his twelve-member Advisory Committee on New Educational Media. Contracts or grants can be made to public or non-profit private agencies, organizations, and individuals. The Commissioner may also

(Continued on page four)

Visit With Hitler Foe Highlights deLevie's Tour

A two-hour visit with Fabian von Schlabrendorff, strong anti-Nazi in Hitler's day and one of the few Germans who attempted to kill the Fuehrer and lived to tell the story, was the highlight of the European tour made by Dr. Dagobert deLevie, associate professor of German, the past summer.

Dr. deLevie met von Schlabrendorff in Wiesbaden, where he is now a lawyer. The author of the book, "They Almost Killed Hitler," Schlabrendorff verified for deLevie the facts cited in the book and also assisted him in a small way with a research project deLevie is working on.

Schlabrendorff, an ardent foe of Nazism as early as 1928 placed a bomb in Hitler's plane on March 13, 1943. The bomb failed to go off, due to a faulty mechanism, but at the time the plot to overthrow Hitler was not discovered and other attempts were made later, in which he participated.

"By a series of strange coincidences," Dr. deLevie says, "he was never executed, as were many of his co-conspirators. This has an even stranger counterpart in the life of Gustav Graf von Schlabrendorff, a distant relation to Fabian, who lived in the 18th century and was a foe of Napoleon Bonaparte.

"Gustav, whose writings I am now investigating, was also supposed to go to the gallows but was miraculously saved on the day of his execution."

Dr. deLevie, who traveled through England, Switzerland, Italy, Austria, Germany, Holland and Belgium this summer, brought back many observations of West Germany today. The Federal Republic of Germany, he points out, is now more densely populated than ever, because of the stream of political refugees from East Germany. Restrictions between the two zones, however, have curtailed much of the normal travel.

"Especially among the older generation of Germans," deLevie found, "there is a tendency to smooth over the faults of the Hitler era. Among the younger generation I found a healthy skepticism to the sacrosanctity of state authority. There is a critical attitude, regrettably, regarding our idea of freedom and the younger people are demonstrating an unconcerned aloofness from politics.

"Germans, compared to other Europeans, seem more tense and restless, stern although not unhappy. Few young people seem to want to emigrate; those who do are more concerned about finding ideal working conditions with high wages than they are about political security or ideals."

Dr. deLevie is at present doing research on the German patriotic literature of the 18th century. One essay of particular interest is "Patriotenspiegel," whose authorship has not been definitely established. He feels certain

for the moment that Gustav von Schlabrendorff was the author. He had little time this summer to add to his knowledge on this subject, but from various sources, including Fabian von Schlabrendorff, he turned up several good leads to further information.

"Gustav's era," deLevie points out, "seems to be the time when the idea of strong nationalism began. He himself renounced God and advocated a religion based on honor and the almightiness of the nationalist state.

"In contrast to his ancestor, Fabian cherished the Bible and kept it with him constantly throughout his trials during the Nazi regime. This fact was used against him in determining his guilt and complicity in the attempts on Hitler's life."

Rev. D'Arcy To Give Philosophy Lecture

The Very Reverend Martin Cyril D'Arcy, S.J., M.A., will present the second lecture in the Distinguished Lecture Series in Philosophy on Friday, Oct. 31.

A graduate of Stoneyhurst and Oxford, where he received the master of arts degree, and the Gregorian University at Rome, Reverend D'Arcy was ordained in 1921. He has taught at Stoneyhurst and was Master of Campion Hall, Oxford, from 1932 to 1945. He served as Provincial of the English Province of the Society of Jesus from 1945 to 1950 and as chaplain to the Knights of Malta in 1956.

Reverend D'Arcy is the author of many books and essays on religious and philosophical topics, including *Thomas Aquinas*, *The Nature of Belief*, *The Problem of Evil*, *The Mirage of Truth*, and *The Life of the Church*.

In addition to the public lecture, Reverend D'Arcy will also lecture to the staff of the department of philosophy and others interested at the professional level during his two-day visit to the campus.

Vesper Services Announced

Vesper Services of Worship will be held twice weekly during the year at the Helen Eakin Eisenhower Chapel. Services will be held on Monday and Thursday at 4:15 p.m. Liturgies of the various religious traditions will provide the framework of worship and focus of sermon discourse. Organ and choral music, representative of the best in the religious traditions, will complement the twice-weekly services.

U Club Tea Oct. 5

The annual University Club tea and reception will be held on Sunday, Oct. 5, from 3 to 5 p.m. All new faculty members are especially invited to the tea.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

- Oct. 12—Dr. Luther H. Harshbarger, University chaplain.
- Oct. 19—Dr. Leslie E. Cooke, associate general secretary, World Council of Churches.
- Oct. 26—Dr. Charles C. Noble, dean, Hendricks Memorial Chapel, Syracuse University.
- Nov. 2—Dr. Robert E. Fitch, dean, Pacific School of Religion, Berkeley, Calif.
- Nov. 9—Dr. Roy C. Buck, associate professor of rural sociology.

CONCERTS

- Oct. 12—Artists' Series program by Danish National Orchestra, 8:30 p.m., Schwab Auditorium.
- Oct. 26—Artists' Series program by Robert Iglesias and Ballet Espagnol, Recreation Building.
- Nov. 2—Artists Series program by Guiomar Novaes, Schwab Auditorium, 8:30 p.m.

DRAMATICS

- Oct. 10, 11, 17, 18—Center Stage, "The Druid Circle," 8 p.m. (runs until Nov. 8).
- Oct. 18—Artists' Series presentation of Shakesperian readings by John Gielgud, 8:30 p.m., Schwab Auditorium.
- Oct. 23, 24, 25—Players production of "Too True To Be Good," by G. B. Shaw, Schwab Auditorium.

ATHLETICS

- Oct. 11—Soccer, vs. Syracuse, 10 a.m.
- Oct. 11—Football, vs. Marquette, 1:30 p.m.
- Oct. 18—Soccer, vs. Colgate, 1:30 p.m.
- Oct. 25—Football, vs. Syracuse, 1:30 p.m.
- Oct. 25—Cross Country, vs. Michigan State, 1 p.m.
- Nov. 1—Football, vs. Furman, 1:30 p.m.
- Nov. 8—Cross country, vs. Manhattan, 1 p.m.

LECTURES

- Oct. 19—The Hon. Richardson Dilworth, mayor of Philadelphia, 8 p.m., 121 Sparks, "Integration in the North."
- Oct. 20—Panel discussion "Integration in the North," 8 p.m., 121, Sparks.
- Oct. 31—Distinguished Lecture Series in Philosophy. Very Reverend Martin Cyril D'Arcy, S.J., M.A.

MEETINGS

- Oct. 10-11—Alumni Homecoming.

Hort Show To Feature Mums And Annuals

The 45th annual Horticulture Show, sponsored by the Horticulture Club, will be held in the Stock Judging Pavilion on Saturday and Sunday, Oct. 10 and 11. The show will be open from 9 a.m. to 9 p.m. on Saturday and 9 a.m. to 7 p.m. on Sunday.

Theme of the show is "Your Back Yard, 1959", featuring a display of chrysanthemums and annuals. Sculptured pieces and the setting will be of a modernistic design.

The show is dedicated to Dr. Liberty Hyde Bailey, considered the father of American horticulture, who taught at Michigan State and Cornell and was the first president of the American Society for Horticultural Science.

Calendar

Saturday, Oct. 4

Cross country, versus Navy, 1:00 p.m.

Sunday, Oct. 5

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Rev. Hal Lieper, Protestant chaplain and assistant director of the University Christian Association, the speaker.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Rev. Preston N. Williams, assistant University chaplain.

University Club tea and reception, 3 to 5 p.m., 331 W. College Ave.

Eastern Orthodox Service of Worship, 10:30 a.m., Helen Eakin Eisenhower Chapel, Father Targonsky, Osceola Mills, in charge.

Monday, Oct. 6

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Ben Euwema, dean, College of the Liberal Arts, on "The Care and Feeding of Deans."

Vesper Service of Worship, 4:15 p.m., Helen Eakin Eisenhower Chapel.

Engineering Mechanics Seminar, 4:15 p.m., 203 Engineering "A".

Tuesday, Oct. 7

Liberal Arts Lecture Series, 8 p.m., Room 121 Sparks. Dr. Herbert Heaton, visiting professor of history, on "Other Wests Than Ours."

Economics Faculty Seminar, 12 noon, Dining "A", Hetzel Union Building. Dr. Lawrence E. Fouraker, assistant dean, College of Business Administration, on "A Theoretical Smorgasord." Dr. Philip A. Klein, assistant professor of economics, presiding.

Wednesday, Oct. 8

Forestry Convocation, 11 a.m., Room 121, Sparks. C. C. Hansen, instructor in English literature, on "The Humanities."

UCA Lecture Series, 8 p.m., main lounge, Helen Eakin Eisenhower Chapel. Dr. M. E. John, head, department of agricultural economics and rural sociology, on "The Role of Personal Bias in Scholarly Work."

Thursday, Oct. 9

Meeting of the faculty, College of Home Economics, 4:15 p.m., Room 14, Home Economics Buildings.

Analytical Chemistry Seminar, 1:10 p.m., Room 105, Osmond Laboratory. Dr. T. G. Rochow, American Cyanamid Co., on "Applications of Electron Microscopy to Analytical Chemistry."

Vesper Service of Worship, 4:15 p.m., Helen Eakin Eisenhower Chapel.

Thespians' production of "Entertainment, U.S.A.," 8 p.m., Schwab Auditorium.

Friday, Oct. 10

Meeting of the faculty, College of Agriculture, 4:15 p.m., Room 109, Armsby Building.

Thespians' production of "Entertainment, U.S.A.," 8 p.m., Schwab Auditorium. (Also Saturday, Oct. 11.)

Players' production of "The Druid Circle," 8 p.m., Center Stage. (Runs until Nov. 8.)

Loan Policy Adopted

The Board of Trustees have approved a student loan fund policy, replacing a policy adopted in 1933.

The policy embraces the general requirements to be met by students seeking a loan as well as procedures for the handling of such loans.

Full-time undergraduate students are eligible for loans provided they have completed their first semester and attained an All-University average of 2.00 or better. Graduate students must have also completed their first semester.

On long-term loans, the total unpaid loans for a freshman may not exceed \$250, for sophomores \$500, for juniors \$750, and for seniors and graduate students \$1000.

Loans will be made a matter of record with a promissory note: such notes not to exceed a period of one year.

Education Act —

(Continued from page two)

make studies and surveys on the need for increased use of audio-visual aids on all educational levels; publish abstracts, catalogs, and other pertinent material related to the increased use of audio-visual aids; provide technical assistance upon request to state and local educational agencies and to institutions of higher education.

Title Eight — Area Vocational Education Programs

The purpose of Title Eight is to extend vocational educational facilities to residents in areas which are inadequately served and also to meet National defense requirements for personnel in areas affected by scientific and technological developments. Area vocational educational programs will provide vocational and related technical training and retraining for youths, adults, and older persons, including related instruction for apprentices, designed to fit them for employment as technicians or skilled workers in scientific or technical fields. The vocational Education Act of 1946 is amended to include area vocational educational programs. A State plan must be approved by the Commissioner of Education before any state can participate under Title Three in the George-Barden Act.

Title Nine — Science Information Service

A Science Information Service will be established by the National Science Foundation. The Foundation, through the Service, will provide for the indexing, formulating, abstracting, and other services leading to the dissemination of scientific information and will also explore new methods for making scientific information available.

Research Policy

Booklet Available

Copies of *Policy and Procedure in Research* as recently revised and approved by the Board of Trustees have been circulated to members of the instructional and research faculty. If for any reason you have not received a copy, please contact the office of the Vice President for Research.

This booklet was written primarily for the faculty of the University. Its purpose is to inform faculty members, especially new members, of the broad policies and procedures for initiating and carrying on research at the University.

The appendix contains copies of the several memoranda of agreement forms (pages 31-34) now in use. Familiarity with these and the conditions which determine their respective use as indicated on pages 16-18 will be helpful to faculty members in preliminary negotiations with sponsors. It would be appreciated if questions and comments on any of the matters in this booklet would be taken up with the assistant dean for research or the college representative for research in your respective college.

Brunner Named Liaison For Danforth Fellowships

President Eric A. Walker has appointed Dr. H. S. Brunner, head of the department of agricultural education, liaison officer for the program of Danforth Foundation Graduate Fellowships.

Two or three senior men students or recent graduates who are preparing for careers in college teaching will be nominated from Penn State for the fellowships for the 1959 academic year.

Directory Distributed

Distribution of the 1958-59 Faculty-Staff Directory was made on Monday on the basis of one copy for each telephone on campus. The same procedure is used in the distribution of Bell Telephone Co. directories.

Copies for personal use may be obtained, at 35 cents per copy, at the Hetzel Union Building desk or at State College book stores.

The Student Directory is expected to be ready Nov. 1.

Wave Behavior Subject Of Science Institute Lecture

Dr. John W. Shive, member of the technical staff, Bell Telephone Laboratories will present a demonstration-talk on "Wave Behavior" at the meeting of the Science Institute for Teachers on Tuesday, Oct. 14, at 4:15 p.m. in Room 112, Buckhout Laboratory. The faculty is invited to attend this lecture.

Items of Interest

Viktor Lowenfeld, head of the department of art education, is author of a paper titled "Evolutionary Problems of Adolescent Art," in the yearbook of Societe Internationale pour L'Education Artistique. . . . Harold P. Zelko, professor of speech, spoke on "Putting Your Ideas Across," at the recent Industrial Management Conference at the University of New Hampshire. . . . Dr. Joseph Marin, head of the department of engineering mechanics, participated in recent discussions in the First Symposium on Structural Mechanics at Stanford University. . . .

Dr. Joseph F. Krawiec, assistant professor of clothing and textile research, spoke last week on the Pennsylvania State Institutional Laundry Program, on which he conducts research, at the annual Institutional Laundry meeting at Ovid, N.Y. . . . Dr. J. Ralph Rackley, dean of the College of Education, will address the 18th annual meeting of the Pennsylvania Institutional Teacher Placement Association on Oct. 23. . . . George M. Dusinerre, professor of mechanical engineering, is author of an article, "A Note on Dimensions," in the Journal of Engineering Education."

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Greek Queen May Visit Campus In Nationwide Tour

Her Majesty Queen Frederika of Greece has indicated a desire to visit the University during an informal and unofficial trip to the United States later this month and in early November.

No date has been set for the visit. Her Majesty plans to visit various institutions of higher learning and to inquire, particularly, into their work in the fields of philosophy and nuclear physics.

Yale Biophysicist Colloquium Speaker

Dr. Ernest C. Pollard, professor of biophysics and chairman of the department of biophysics at Yale University, will discuss "Frontiers in Biophysics," on Tuesday, Oct. 21, at 4:15 p.m. in Room 112, Buckhout Laboratory.

The lecture is one of the weekly colloquium meetings of the Science Institute for Teachers. All interested faculty members are invited.

Law Placement Test Applications Due

The next Law Placement Test for the Central Pennsylvania area will be given at Penn State on Saturday morning, Nov. 8. Requests for applications should be submitted by tomorrow (Oct. 11) to the office of the department of political science, 129 Sparks Building. They may also be obtained from the Educational Testing Service, Princeton, N.J. Most leading American law schools specify the test as one factor in considering candidates for admission.

Yearbook Rated Excellent

The 1958 LaVie, senior class annual, has received an "A" or excellent rating from the National School Yearbook Association. The book was complimented highly for its dignity and the judges said that "it speaks well for the University it represents." Not more than 10 per cent of the books judged are given the "A" rating.

Sir John Gielgud Gives Shakespeare Readings

Tickets for the Artists Series program by Sir John Gielgud, British actor, on Saturday, Oct. 18, will be on sale to the general public on Thursday and Friday, Oct. 16 and 17, from 9 a.m. to 12 noon and 1 to 5 p.m. at the Hetzel Union Building desk.

Sir John will present a program of Shakespearean readings based on George Rylans' anthology. The program is in three parts: Youth, Manhood, and Old Age, in describing "Shakespeare's Ages of Man." The program includes selections from most of Shakespeare's best known plays. The program begins at 8:30 p.m.

The Artists Series program by the Danish National Orchestra scheduled next Sunday, Oct. 12 at Recreation Building, will begin at 8 p.m., instead of 8:30 p.m. as previously announced.

Columbus Day Program

The public is invited to attend a special Columbus Day program sponsored by the Inter-American Club on Sunday, Oct. 12, at 7:30 p.m. in the Extension Conference Center. Dr. Anton J. Kovar, assistant professor of botany, will be the speaker.

Biochemists Discover New Type Of Plant Fat

Dr. Andrew A. Benson, associate professor of agricultural and biological chemistry, and Dr. Robert Wiser, former graduate student, have identified a new type of fat in plants, called sulfolipid.

The discovery of the sulfolipid was announced at the recent meeting of the American Institute of Biological Sciences and at the fourth International Congress of Biochemistry, in Vienna.

The nutritional value of the sulfolipid is as yet unknown but it is known that it readily formed and metabolized in plants and probably is nutritious in human foods as well, Dr. Benson reported.

Chemistry, Physics Staffs Meet Oct. 17, 18

Dr. W. T. Hanson, head of the color photography division of Eastman Kodak Co., will present the main address during the annual conference of chemistry and physics teachers of the center and campus staffs, Oct. 17 and 18.

The two-day program in Osmond Laboratory, will include lectures and demonstrations, a symposium, a panel discussion, course working sessions, and the dinner meeting in the Hetzel Union Building. Dr. Hanson will speak on "The Physics and Chemistry of Color Photography," at the dinner meeting.

College Level Program Telecast Daily On NBC

The National Broadcasting Co. initiated a nationwide telecast of a college-level program titled "Atomic Age Physics," on Oct. 6 on its series, "Continental Classroom."

The program is carried by WJAC-TV, Johnstown.

Planned primarily for high school science teachers, with a view to bringing about a dramatic improvement in science education in the nation's high schools and to insure an adequate supply of scientists in the future, the program is televised Monday through Friday, 6:30 to 7:00 a.m. It will continue until June 5, 1959.

More than 300 colleges and universities are carrying the course for credit.

Bloodmobile Here Oct. 14

The Red Cross Bloodmobile will be at the American Legion home on S. Pugh St. on Tuesday, Oct. 14, from 10 a.m. to 4 p.m.

Health Center Open House

Facilities of the Ritenour Health Center will be open to the public on Saturday, Oct. 11, from 10 a.m. to 12 noon. The Open House program will mark the first time that the general public has been permitted to see the expanded facilities since they were put in use last year.

Registrar Reports on Total Campus Enrollment for Fall Semester, 1958-59

	1 Sem	2 Sem	3 Sem	4 Sem	5 Sem	6 Sem	7 Sem	8 Sem	Total
AGRICULTURE									
ABCh	17	1	11	1	2	1	6	3	42
AERS	13	1	15	1	16	1	6	4	57
AgEd	29	3	54	6	31	8	32	5	168
AgJ	—	—	—	—	1	—	—	1	2
Agro	6	2	4	—	2	1	6	3	24
AH	27	3	24	3	38	3	25	3	126
Bact	16	—	8	1	9	—	4	6	44
BPP	1	—	1	3	1	—	—	—	6
Consv	—	—	3	—	2	—	4	3	12
DSc	11	1	30	2	20	2	25	9	100
GnAg	14	1	12	2	6	—	13	3	51
Hort	21	—	12	2	12	1	13	4	65
LArch	10	—	9	2	9	3	13	5	51
MedT	38	—	26	—	7	—	13	1	85
PH	2	—	1	—	3	—	1	—	7
PV	39	2	25	3	13	4	—	—	86
ZE	4	—	11	1	25	2	16	2	61
2AG	18	1	4	1	—	—	—	—	24
School of Forestry									
For	—	—	73	2	67	7	48	13	210
WU	—	—	6	1	1	—	6	6	20
Total	266	15	329	31	265	33	231	71	1241
BUSINESS ADMINISTRATION									
BA	276	25	255	43	389	74	321	107	1490
Total	276	25	255	43	389	74	321	107	1490
CHEMISTRY & PHYSICS									
ChE	118	5	78	6	56	10	51	11	335
Chem	71	2	29	7	27	3	21	2	162
CCh	—	—	—	—	—	—	—	1	1
Phys	71	4	46	12	39	5	22	3	202
PM	48	1	38	—	22	2	25	2	138
Sc	20	—	6	—	9	3	13	5	56
Total	328	12	197	25	153	23	132	24	894
EDUCATION									
AEd	15	1	25	1	24	1	18	8	93
Ed	344	28	318	46	331	29	250	50	1396
IArt	7	3	13	2	13	3	15	15	71
MusEd	20	3	19	3	27	4	17	4	97
Psy	53	5	68	8	81	13	54	9	291
VIEd	2	—	3	—	4	2	1	3	15
Total	441	40	446	60	480	52	355	89	1963
ENGINEERING & ARCHITECTURE									
AeroE	4	12	66	9	63	11	40	12	217
AgE	28	2	15	1	8	2	10	10	76
Arch	37	3	27	1	19	5	18	18	128
AE	20	1	9	—	11	1	11	6	59
CE	—	6	63	12	72	12	62	23	250
Engr.	717	10	—	—	—	—	—	—	727
EE	—	5	185	50	199	30	177	74	720
ESc	—	—	26	1	21	3	15	1	67
IE	—	7	27	10	56	12	42	24	178
ME	1	4	108	14	96	14	94	48	379
SE	—	—	—	—	3	2	3	1	9
Total	807	50	526	98	548	92	472	217	2810
HOME ECONOMICS									
HEc	157	3	160	8	118	10	104	8	568
HA	19	3	17	7	20	7	21	10	104
Total	176	6	177	15	138	17	125	18	672
THE LIBERAL ARTS									
AL	366	15	267	28	287	33	211	49	1256
LMR	7	—	9	1	20	6	14	7	64
School of The Arts									
AArt	30	2	23	2	15	3	26	4	105
Arts	15	1	16	3	13	2	11	6	67
School of Journalism									
Journ	50	8	47	5	57	7	48	13	235
Total	468	26	362	39	392	51	310	79	1727
MINERAL INDUSTRIES									
Cer	22	—	12	1	11	1	6	2	55
FT	13	—	11	—	10	—	2	1	37
Geog	—	—	1	—	3	—	9	3	16
G&G	10	1	13	—	5	4	10	1	44
G&M	33	2	19	4	15	4	10	3	90
Metal	70	4	38	1	17	3	15	8	156
Meteo	17	1	10	4	9	3	44	1	89
MnEc	1	—	4	—	3	—	4	2	14
MPE	2	—	1	—	6	1	—	3	13
MngE	9	—	9	—	11	1	3	3	36
PNGE	17	1	12	3	9	3	13	4	62
Total	194	9	130	13	99	20	116	31	612

Registrar Reports on Total Campus Enrollment for Fall Semester, 1958-59

	1 Sem	2 Sem	3 Sem	4 Sem	5 Sem	6 Sem	7 Sem	8 Sem	Total						
Physical Education & Athletics															
PhEd	71	5	57	8	54	9	34	21	259						
RcEd	12	1	3	1	13	2	12	4	48						
Total	83	6	60	9	67	11	46	25	307						
Division of Counseling															
Counseling	111	16	329	34	205	23	25	2	745						
Total															
Undergraduates	3150	205	2811	367	2736	396	2133	663	12461						
Campus	Freshmen		Sophomores		Juniors		Seniors		Graduate		Special		Totals		T
	M	W	M	W	M	W	M	W	M	W	M	W	M	W	
Full-time	2274	1073	2206	965	2293	814	2181	576	540	99	39	16	9533	3543	13076
Part-time	3	5	6	1	11	14	15	24	994	247	84	154	1113	445	1558
Total on Campus	2277	1078	2212	966	2304	828	2196	600	1534	346	123	170	10646	3988	14634
Centers (See summary below)															
Full-time (4-Yr)	982	186	354	63	2	2	—	—	—	—	—	—	1338	251	1589
Full-time (2-Yr)	1025	29	556	20	5	—	—	—	—	—	—	—	1586	49	1635
Part-time (4-Yr)	23	6	46	4	—	1	—	—	—	—	14	9	83	20	103
Part-time (2-Yr)	17	—	25	—	8	—	—	—	—	—	3	—	53	—	53
Part-time Ext. Classes	—	—	—	—	—	—	—	—	279	135	624	698	903	833	1736
Total Centers	2047	221	981	87	15	3	—	—	279	135	641	707	3963	1153	5116
Mont Alto															
Full-time	119	—	—	—	—	—	—	—	—	—	—	—	119	—	119
Total Off Campus	2166	221	981	87	15	3	—	—	279	135	641	707	4082	1153	5235
Total On and Off Campus	4443	1299	3193	1053	2319	831	2196	600	1813	481	764	877	14728	5141	
	5742		4246		3150		2796		2294		1641		19869		

Summary of Off-Campus Enrollment, Fall Semester, 1958-59

	Full-Time	Four-Year Part-Time	Special (Part-Time)	Two-Year Full-Time	Two-Year Part-Time	
Centers						
Allentown	—	—	—	112	3	115
Altoona	260	3	7	178	13	461
Behrend	181	12	1	85	2	281
DuBois	129	1	2	63	2	197
Hazleton	187	3	1	122	4	317
McKeesport	—	—	—	208	11	219
New Castle	—	—	—	58	—	58
New Kensington	—	—	—	78	1	79
Ogontz	631	60	3	136	7	837
Pottsville	201	1	9	82	—	293
Scranton	—	—	—	124	—	124
Wilkes-Barre	—	—	2	180	3	185
Wyomissing	—	—	1	56	—	57
York	—	—	—	153	4	157
Mont Alto	119	—	—	—	—	119
Total Off Campus	1708	80	26	1635	50	3499

Recapitulation

	M	W	Total
Campus			
Full-time undergrad.	8993	3444	12437
Part-time undergrad.	119	198	317
Total undergrad.	9112	3642	12754
Full-time graduate	540	99	639
Part-time graduate	994	247	1241
Total graduate	1534	346	1880
Total Main Campus	10646	3988	14634
Off Campus			
Full-time undergrad.	3043	300	3343
Part-time undergrad.	136	20	156
Part-time Extension			
Undergrad.	624	698	1322
Graduate	279	135	414
Total Off Campus	4082	1153	5235
On and Off Campus			
Full-time undergrad.	12036	3744	15780
Part-time undergrad.	879	916	1795
Full-time graduate	540	99	639
Part-time graduate	1273	382	1655
Total	14728	5141	19869

Graduate and Special Students by Colleges

	Graduate		Special	
	M	W	M	W
Agriculture	270	20	24	11
Business Admin.	80	—	13	19
Chem. and Phys.	266	17	11	3
Home Economics	4	68	—	11
Liberal Arts	166	74	16	77
Education	318	142	31	48
Eng. and Arch.	159	—	11	—
Mineral Ind.	227	7	16	—
Phy. Ed. and Ath.	27	9	1	1
General Graduate	17	9	—	—
Total	1534	346	123	170
	1880		293	

Calendar

Friday, Oct. 10

Meeting of the faculty, College of Agriculture, 4:15 p.m., Room 109, Armsby Building.
Thespians' production of "Entertainment, U.S.A.," 8 p.m., Schwab Auditorium. (Also Saturday, Oct. 11.)
Players' production of "The Druid Circle," 8 p.m., Center Stage. (Runs until Nov. 8.)

Saturday, Oct. 11

College of Home Economics coffee hour for alumni, 9:30-11:30 a.m., Living Center, Home Economics Building.
Football, versus Marquette, 1:30 p.m., Beaver Field.
Soccer, versus Syracuse, 10:00 a.m.
Freshman football, versus West Virginia, 10:00 a.m.
Hort Show, 9 a.m. to 9 p.m., Stock Judging Pavilion. (Also Sunday.)
Thespians' production of "Entertainment, U.S.A.," 7:30 p.m., Schwab Auditorium.
Players' production of "The Druid Circle," 8 p.m., Center Stage.
Open House at Ritenour Health Center, 10 a.m. to 12 noon.

Sunday, Oct. 12

Columbus Day Program, 7:30 p.m., Extension Conference Center, sponsored by Inter-American Club. Dr. Anton J. Kovar, assistant professor of botany, speaker.
Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Rev. Donald Cutler, Episcopal chaplain to students, in charge.
Roman Catholic Mass, 9 a.m., Schwab Auditorium.
Chapel Service, 10:55 a.m., Schwab Auditorium. Rev. Luther Harshbarger, University chaplain.
Artists Series program by the Danish National Orchestra, 8 p.m., Recreation Building.
Hort Show, 9 a.m. to 7 p.m., Stock Judging Pavilion.

Monday, Oct. 13

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building, Ralph W. McComb, University Librarian, on "The Trouble with Gutenberg."
Vesper Service of Worship, 4:15 p.m., Helen Eakin Eisenhower Chapel.
Engineering Mechanics Seminar, 4:15 p.m., 203, Engineering "A".

Tuesday, Oct. 14

Science Institute for Teachers Colloquium, 4:15 p.m., 112, Buckhout Laboratory. Dr. John N. Shrive, Bell Telephone Laboratories, on "Wave Behavior."
Meeting of Penn State chapter, American Society for Metals, 7:30 p.m., Mineral Sciences Auditorium. Theodore S. Lundy, Oak Ridge, National Laboratory, on "What Is A Reactor?"

Wednesday, Oct. 15

Graduate Mining Seminar, 4:00 p.m., Room 24, Mineral Industries Building.
Slavic and Russian Club meeting, 7 p.m., Helen Eakin Eisenhower Chapel lounge.

Thursday, Oct. 16

Chemistry Colloquium, 1:10 p.m., Osmond Laboratory. Dr. H. A. Sheraga, professor of chemistry, Cornell University, on "Physical-Chemical Aspects of Fibrinogen-Fiberin Conversion."
Vesper Service of Worship, 4:15 p.m., Helen Eakin Eisenhower Chapel.

Applications Asked For Woodrow Wilson Grants

Faculty members are reminded that Oct. 31 is the deadline for submitting nominations for the 1959 Woodrow Wilson Fellowships, sponsored jointly by the Association of American Universities and by the Carnegie Corporation and General Education Board.

Approximately 1000 fellowships will be made available to students in the natural and social sciences and the humanities who hope to make college teaching a career. Outstanding college seniors who have not yet entered a liberal arts graduate school are eligible for nomination and this year, on an experimental basis, a limited number of junior students will also be awarded grants. College graduates now in the armed forces are eligible if they are free to enter a graduate school during the 1959-60 year.

Awards are made for the first year of graduate study only. Stipends provide \$1500 plus dependency allowances for wife and children. The Ford Foundation, which made a significant grant in the spring of 1957 toward the program, pays tuition and fees for the fellow directly to the graduate school. Fellows are expected to devote full time to their studies. A limited amount of teaching and assistance may be authorized by the national director of the program but only when such work is undertaken in furtherance of a fellow's graduate education and when it does not interfere with his normal growth in study.

Only faculty members may nominate candidates. A nominated candidate is invited to make formal application and those appearing most promising are then invited for an interview at a regional center.

Last spring, three Penn State students, Lawrence Kowalski, Everett Van Dorn, and James Clegg, were awarded fellowships.

Further information can be obtained from the office of Dr. Howard A. Cutler, assistant to the vice president for academic affairs, 302 Old Main, Ext. 2418.

The American Farm Economics Association granted its Award of Merit to **Dr. E. M. Babb, Jr.**, former assistant professor, and **Dr. William T. Butz**, associate professor, of the department of agricultural economics and rural sociology recently for published research on market milk distribution systems. . . . **Dr. George F. Deasy**, professor of geography, has been appointed to a three-year term on the national membership committee of the Association of American Geographers. . . . **Dr. Lawrence L. Werboff**, assistant professor of economics, presented a paper, "Installment Credit Terms and Consumer Behavior," at the meeting of the Econometric Society at Cambridge, Mass., in August. . . .

Dr. Earl P. Strong, director of the Bureau of Business Research, and **Clifford A. Nelson**, associate professor of

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

- Oct. 19—Dr. Leslie E. Cooke, associate general secretary, World Council of Churches.
- Oct. 26—Dr. Charles C. Noble, dean, Hendricks Memorial Chapel, Syracuse University.
- Nov. 2—Dr. Robert E. Fitch, dean, Pacific School of Religion, Berkeley, Calif.
- Nov. 9—Dr. Roy C. Buck, associate professor of rural sociology.
- Nov. 16—The Rev. Canon Bryan S. W. Green, canon of Birmingham Cathedral and Rector of St. Martin's in the Bull Ring, Birmingham, England.

CONCERTS

- Oct. 26—Artists' Series program by Robert Iglesias and Ballet Espagnol, Recreation Building.
- Nov. 2—Artists Series program by Guiomar Novaes, Schwab Auditorium, 8:30 p.m.
- Nov. 9—Recital by Raymond Brown, assistant professor of music, 4 p.m.

DRAMATICS

- Oct. 10, 11, 17, 18—Center Stage, "The Druid Circle," 8 p.m. (runs until Nov. 8).
- Oct. 18—Artists' Series presentation of Shakesperian readings by John Gielgud, 8:30 p.m., Schwab Auditorium.
- Oct. 23, 24, 25—Players production of "Too True To Be Good," by G. B. Shaw, Schwab Auditorium.
- Nov. 14—Artists Series program by The Canadian Players, in "As You Like It." (Also matinee, Nov. 15.)
- Nov. 15—Artists Series program by The Canadian Players, in "Devil's Discipline."

ATHLETICS

- Oct. 18—Soccer, vs. Colgate, 1:30 p.m.
- Oct. 25—Football, vs. Syracuse, 1:30 p.m.
- Oct. 25—Cross Country, vs. Michigan State, 1 p.m.
- Nov. 1—Football, vs. Furman, 1:30 p.m.
- Nov. 8—Cross country, vs. Manhattan, 1 p.m.
- Nov. 15—Football, vs. Holy Cross, 1:30 p.m.
- Nov. 15—Soccer, vs. Army, 10 a.m.

LECTURES

- Oct. 19—The Hon. Richardson Dilworth, mayor of Philadelphia, 8 p.m., 121 Sparks, "Integration in the North."
- Oct. 20—Panel discussion "Integration in the North," 8 p.m., 121, Sparks.
- Oct. 31—Distinguished Lecture Series in Philosophy. Very Reverend Martin Cyril D'Arcy, S.J., M.A.

Items of Interest

Dr. Eugene T. McDonald, director of the Speech and Hearing Clinic, presented a paper recently at the 12th annual meetings of the American Academy of Cerebral Palsy at Providence, R.I. . . . **Merrill Wood**, associate professor of zoology, has been elected a member of the Laboratory of Ornithology of Cornell University. . . . **Dr. John D. Ridge**, assistant dean of the College of Mineral Industries, addressed the eighth annual Drilling and Blasting Symposium at the University of Minnesota last week, proposing a four-point government program for the mining industry.

accounting, participated in the annual Efficient Terminal Management Course conducted by the Institute of Public Safety last week. . . . **Dr. Jan S. Prybyla**, assistant professor of economics, is author of an article, "Private Enterprise in Poland Under Gomulka," appearing in the current issue of the American Slavic and East European Review of the Columbia University Press. . . . **W. E. Meyer**, professor of mechanical engineering, addressed the Williamsport group of the Society of Automotive Engineers last week on "Principles and Problems of Gasoline Injection."

No Grad School Meeting

The meeting of the faculty of the Graduate School, previously scheduled for Oct. 16, has been cancelled. No date has been set for the next meeting.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.



The Penn State Men and Ideas telecast three times weekly brings faculty members into area homes. At left above, is Dr. David Russell, center is Gilbert Aberg, moderator of program, and at right is Peter Wegner. Their program last week stressed mathematics.

Men And Ideas Telecast Well Received In Area

ADMITTING the practical limitations imposed on any television program of only ten minutes duration, the "Penn State: Its Men and Ideas" telecast over WFBG-TV, Altoona, three times weekly is accomplishing at least one of its several goals: to help area viewers become better acquainted with the University faculty.

"Only time will tell whether the other objectives are met," says Gilbert S. Aberg, radio-television producer of the Department of Public Information, who arranges and moderates the program originating from Sparks Building.

These objectives, Aberg adds, are: (1) to keep our public informed on developments in the field of education, and (2) to stimulate viewers to think more about education.

To date, Dr. Brice Harris, professor of English literature, and Dr. John R. Rackley, dean of the College of Education, have discussed education in general; Drs. Ralph W. Condee, specialist in humanities for the Liberal Adult Ed-

ucation program, and George E. Murphy, director of the Reading Clinic, have discussed reading; Drs. Edward J. Nichols, professor of English composition, and E. Terry Schwartz, assistant professor of education, dwelt on writing; and last week, Peter Wegner, research associate in electrical engineering, and Dr. David W. Russell, professor of education, considered mathematics.

The varied backgrounds of the participants illustrates one essential element in program planning, Aberg says; every faculty member is a potential discussant. Although there has been at least one person from the College of Education on each of the first four programs, this is more by coincidence than design, it is pointed out.

The general format of the program is constant. One participant discusses the chosen topic on Monday, the second on Wednesday, then the two come back on Friday for a summary. In many cases there is a conflict of opinion ex-

pressed in the first two programs. Perhaps the conflict is resolved on Friday, perhaps it is re-emphasized to show that differing opinions do exist.

Aberg acts as moderator, asking questions designed to give the participant a wide latitude of discussion. The questions flow naturally, to keep the program as informal as possible.

"We try to make the program conversational in style," Aberg adds.

"There is ample preparation, however. Generally I get together with the participants before the program for an hour, sometimes two hours. Many of the questions I ask then will also be asked later, but I do not hesitate to ask different questions on the program if they seem to follow logically."

Since the program is telecast from 9:50 to 10:00 a.m., the audience is largely housewives. Keeping that fact in mind, Aberg attempts to build the programs around subjects likely to prove helpful to parents, to motivate them to think seriously about problems in education.

Reaction from the participating faculty members to date varies. Says Dr. Murphy, "It is frustrating to have to terminate the discussion before you can accomplish what you want. But the experience is stimulating. I liked the spontaneity Aberg develops."

Dr. Schwartz commented: "It is a constructive way to use the ten minutes of television time. I liked especially the opportunity it gives to present various viewpoints of people working in the same general area. A secondary value, I found, is that it is a good way to bring together faculty members from different parts of the campus."

Says Dr. Nichols: "The time limitation is a serious one, but it should not deter faculty members from participating. If they have any thought of future television appearances, the program gives them a chance to get accustomed to cameras, lights, and the few directions of the cameramen."

William G. Mulvey, production director of WFBG-TV has this to say:

"The program is well received in our

(Continued on page three)

Senate Minutes

Minutes of Meeting of October 2, 1958

The University Senate met at 4:10 p.m. on Thursday, October 2, 1958, in the Assembly Room of the HUB with President Eric A. Walker presiding.

The minutes of the May 29 meeting were printed in the Faculty Bulletins for June 6 and 13, 1958. The secretary called attention to a typographical error in the Faculty Bulletin for June 6. The last line of paragraph 7 in column 2 read: "Section 'c' will NOT read." The correct line as printed in the official minutes reads: "Section 'c' will NOW read." The minutes were approved as corrected. 182 senators signed the roll.

President Walker called on the deans of the Colleges to introduce the new senators.

COMMUNICATIONS FROM UNIVERSITY OFFICERS

New Senators

From the College of Agriculture, H. N. Cope, Acting Director of the School of Forestry.

From the College of Business Administration, C. J. Rowland, to fill the vacancy in the elective senators for 1958-1959.

From the College of Home Economics, Mrs. Alida Hotchkiss, for the term 1958-1960 to replace Elizabeth Hillier who is on leave.

From the College of the Liberal Arts, George Zoretich, substitute for the Head of the Department of Art; Winston Weisman, substitute for the Director of the School of the Arts; A. B. Sutherland, substitute for the Head of the Department of English; M. N. Brentin, substitute for the Head of the Department of Romance Languages (on leave); and J. W. Markham, substitute for the Head of the Department of News and Editorial Journalism.

From the College of Mineral Industries, Arnulf Muan, as elective senator for 1958-1961 to serve while H. J. Read is on leave.

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: E. P. Strong (Alice Warne), H. L. Hartman (Robert Stefanko), J. L. Gobble (J. H. Ziegler), E. T. McDonald (E. M. Siegenthaler), H. M. Davison (M. J. Weiss), W. C. Fernelius (Thomas Wartik), and D. W. Davis (R. L. Hicks). C. A. Becker will attend the meetings for the academic year 1958-1959 in place of M. E. John.

From Robert G. Bernreuter, Special Assistant to the President for Student Affairs, asking if the Senate would invite student members of the standing committees and subcommittees of the Senate to attend the meetings of the Senate during the academic year 1958-1959? This letter will be acted upon under New Business.

A confirmation of the appointment of H. E. Goodwin as Senate Representative on the Board of Student Publications for the academic year 1958-59.

A letter from L. E. Dennis regarding the Dropping of courses not taught over the five year period, Fall, 1953 to Spring, 1958. The list of these courses, as prepared by Mr. Dennis, was distributed at this meeting. The list is on file in the office of the secretary.

From the Secretary of the Board of Trustees a list of the actions of the Board regarding recommendations made to it by the University Senate as follows:

1. Approval of the calendar for the academic year 1959-60 providing for two semesters and a summer session, the last to consist of two six week sessions and a concurrently running 3-6-3 weeks schedule.
2. Establishment of a two-year Associate Degree Curriculum in Hotel and Food Service to be offered at University Park and the Penn State Centers by the Department of Hotel and Institution Administration, College of Home Economics, effective July 1, 1958.
3. Termination of the four-year Curriculum in Hotel Administration, effective June 30, 1962.
4. Approval of the revised wording of Section B, Subsection 2, of the policy governing Leave of Absence for Regular University Employees as follows:

Eligibility for Leave

- a. An academic employee who has served the University efficiently for a minimum of six (6) years in a professorial rank (Assistant Professor, Associate Professor, Professor) is entitled to a sabbatical leave of absence with pay.
- b. A leave of absence with salary is granted to a County Agent or a Home Economics Extension Representative who has served the University efficiently for ten (10) years or more.
- c. A leave of absence with salary is grant-

ed to academic administrators who have served the University efficiently for a minimum of six years.

d. Those who qualify shall be encouraged to take sabbatical leaves; in each individual case, the period for which a leave is authorized shall serve the mutual interests of the employee and the University.

From Jay Feldstein, President of All-University Cabinet, a recommendation that

- (a) the basic physical education program be elective for veterans,
- (b) students who are exempt be required to substitute an equivalent number of credits in place of the credits of required physical education not scheduled,
- (c) students who elect not to take physical education their first semester may schedule it their following four semesters,
- (d) students who elect to schedule physical education 2 must continue in the basic physical education program.

President Walker referred this communication to the Senate Committee on Academic Standards to report to the secretary of the Senate at an early meeting.

From L. E. Dennis the following:

Would you please inform the members of the University Senate on October 2, 1958, that the Chairman of the Commission on Higher Education of the Middle States Association has notified the President of the University that the Commission has voted to accept the Report of Progress which the University submitted to the Commission in March, 1958. Such a Progress Report had been requested by the Commission in its 1955 Evaluation Report reaffirming the accreditation of the University.

In voting to accept the Progress Report, the Commission commended the President, the members of the faculty and administrative staff, and the Board of Trustees for the responsiveness of the University to the suggestions contained in the Evaluation Report. The Commission also voted to request the University to submit an additional report on or before February 1, 1960, "relating to further developments and intentions with respect to extension requirements and the extension centers." In his acknowledgment of the acceptance by the Commission of the University's Progress Report, the President indicated that an additional report dealing with the extension program would be filed with the Commission by the date specified.

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the Agenda as Appendix "A" and moved its adoption. The motion was seconded and passed. The report is on file in the office of the secretary. Mr. Shelley also reminded the Senate of the provisions which had been adopted in May for presenting course and curriculum proposals. Ten criteria are to be applied in presenting new curriculums and five for new courses. He urged all persons who wish to initiate changes in courses or who wish to drop courses to use the forms on hand now. However, persons who wish to initiate new courses or new curriculums should use the revised forms about to be distributed. He also explained the time table for material to be sent to the Courses of Study Committee. All proposals which will reach the Committee by the 20th of the month will be sent to the senators on the 27th for action by the Committee at its next meeting. This material will then be included in the agenda for action at the Senate the following month.

F. M. Coombs, Chairman of the SENATE COMMITTEE ON CALENDAR, reported that the University will follow a normal calendar for the academic year 1959-60 based on the policies previously adopted by the University Senate.

NEW BUSINESS

With reference to the communication from R. G. Bernreuter, Special Assistant to the President for Student Affairs, regarding student members of Senate Committees and subcommittees being invited to attend the Senate Meetings, E. P. Nye moved

That an invitation be extended to the student members of all Senate standing committees and subcommittees to attend meetings of the Senate during this academic year, it being understood that this invitation includes the privilege of the floor but does not infer the right to vote. The motion was seconded and passed.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

President Walker informally discussed a number of current problems facing the University. He mentioned the thorough study that is being made of the extension program of the University which is to be ready by the middle of December in order that it may be

considered at the next annual meeting of the Board of Trustees.

He also discussed the reasons for the early preparation of the biennial budget and the request to the General State Authority for the buildings to be started during the next six years.

He referred to the new sabbatical leave policy which has been approved by the Board of Trustees. He mentioned that during this year a plan to balance salaries in cash with such fringe benefits as hospitalization, retirement, and sabbatical leaves will be considered.

The President discussed the importance of measuring excellence in teaching. He urged the members of the Senate to consider ways in which teaching can be evaluated and suggested the possibility of a faculty committee to prepare evaluation techniques.

In discussing the size of the student body the President mentioned that the present freshman class was not increased over last year's class. He stated that any further increase in the size of the freshman classes in the future will depend upon the funds available to the University.

The meeting adjourned at 4:52 p.m.

Robert G. Bernreuter
Secretary

Conference On Integration In Sparks Sunday, Monday

A Conference on "Integration in the North," sponsored by the Committee on Interreligious Affairs, will be held Sunday and Monday, Oct. 19 and 20.

Sunday evening, in 121 Sparks Building, the Honorable Richardson Dilworth, mayor of Philadelphia, will be the speaker and Monday a panel of distinguished leaders will discuss the conference theme. Both programs begin at 8 p.m.

The panelists are: George Culberson, executive director of the Pittsburgh Commission on Human Relations; Father George B. Ford, recently retired pastor of Corpus Christy Church, New York City; Maurice B. Fagan, executive director of the Jewish Community Relations Council and of the Philadelphia Fellowship Commission; and Dr. John A. Morsell, assistant to the executive secretary of the National Association for the Advancement of Colored People.

Players Present Late Shaw Play

Warren S. Smith, associate professor of theatre arts, is director of the Penn State Players' production of George Bernard Shaw's "Too True To Be Good," opening Thursday, Oct. 23, at 8 p.m. in Schwab Auditorium and continuing Oct. 24 and 25.

The play was written by Shaw when he was 76 and is rarely produced. It uses all the baldest elements of farce-melodrama, including stolen jewels, ransom notes, a staged abduction, etc., in a sharply definitive criticism of humanity.

Investment Consultant To Address AAUP Oct. 22

Robert L. Klotz, investment consultant for Green, Ellis and Anderson, investment brokers, will speak on "Investment Planning for University Professors" at the meeting of the American Association of University Professors on Wednesday, Oct. 22, at 8 p.m., in Room 203, Willard Building.

Ayres Heads Institute, Weisman Art Department

Dr. Ruth W. Ayres, professor and head of the department of clothing and textiles, has been named director of the Ellen H. Richards Institute, a position she has been acting in since the resignation earlier this year of Dr. Mary P. Shelton.

Dr. Winston R. Weisman, associate professor of history of art and architecture, has been named head of the department of art and George S. Zoretich, associate professor of art, has been named associate head of the department.

Resignations Announced

Resignations of the following faculty members were reported to the Board of Trustees last week:

F. Cuthbert Salmon, associate professor of architecture, effective Jan. 31, to become professor and head of the department of the School of Architecture and Applied Arts, Oklahoma State University.

Dr. Wayne R. Gruner, visiting professor of physics, Sept. 30, to return to his position with the Office of Naval Research, Washington, D.C.

Dr. James C. Tomkinson, visiting research associate in chemistry, Sept. 30, to return to England.

Dr. John A. Fitz, associate professor of education, Aug. 30, to accept a position with the International Cooperation Administration.

Dr. June M. Collins, associate professor of clothing and textiles, Aug. 31, now professor at Chicago Teachers College.

Edwin H. Webb, research associate in the Ordnance Research Laboratory, Sept. 23, to join Haller, Raymond, and Brown, Inc.

Dr. Katsuye Inouye, research associate in fuel technology, Sept. 30, to return to Japan.

John C. Kosco, temporary research associate in metallurgy, to accept a position with Stackpole Carbon Co.

Lucille J. Houck, extension home economist; Nancy Louise Kern, associate extension home economist; and Miriam R. Long, extension home economist; all to devote more time to homemaking.

Board Approves Five Changes Of Status

The following changes in status for five faculty and staff members were announced by the Board of Trustees:

Christian K. Arnold, staff assistant to the President, to associate professor of journalism and staff assistant.

Dr. Robert H. McAlexander, assistant professor of farm management, to associate professor.

Dr. Alberta E. Siegel, assistant professor of child development and family relationships, to associate professor of child development.

Dr. Harold Schraer, research associate in physics to senior research associate in biophysics.

Dr. Sara A. Rhue, associate professor of elementary education, to associate professor of education.

University To Buy Clemson Property

A seven-acre tract of land with buildings housing the Clemson Motor Co. will be purchased by the University. The Board of Trustees authorized the purchase at its weekend meeting. An option on the property was obtained on Sept. 12.

Although no plans have been made for occupancy of the buildings, the University will probably transfer the operations of the Office Services Division and the motor fleet and garage to the new site, President Eric A. Walker said.

Dictaphone Official Named Vice President

Albert E. Diem, vice president in charge of manufacturing for Dictaphone Corporation, Bridgeport, Conn., was named vice president for business administration of the University by the Board of Trustees last week.

A 1935 graduate of the University, he was employed previously by the General Electric Company and rejoined the company after graduation. He served in various capacities until 1937 when he joined the Dictaphone Corp. He was named to his present post in 1952.

Mr. Diem has served in recent years as a member of the Alumni Fund Council and as a director of the University Christian Association.

Master Of Agriculture Degree Is Approved

The degree of master of agriculture, a professional degree, has been established, with the approval of the Board of Trustees. A minimum of 30 credits, a final examination, and a problem paper in which scientific methods are applied to some professional problem will be required. Last year the Trustees approved the professional degree of master of engineering.

Beaver Field Move To Be Studied Further

Continued study of the proposal to move Beaver Field to a new site on the eastern edge of the campus was authorized by the Board of Trustees last week.

Authority was granted to retain Michael Baker, Jr., Inc., Rochester, Pa., to prepare detailed plans, specifications and bidding documents "for the removal, erection, and expansion" of the stadium.

The project is planned on a self-liquidating basis. The relocation was proposed in the long range study, designed to make valuable space available for academic buildings.

Men And Ideas—

(Continued from page one)

viewing area. It is making a real contribution to the public's understanding of the educational problems of the day, and we at the station feel that it is a sound educational-informational program. We are also happy to help the viewers in our area become better acquainted with Penn State and its faculty."

Future telecasts, Aberg explains, will go into nearly every phase of education as exemplified at Penn State, such as: the role of liberal arts in science education, the use of audio-visual aids, the place of recreation in the curriculum, the creative arts, etc.

Items of Interest

Dr. Miriam E. Lowenberg, head of the department of foods and nutrition, presented a paper on "The Professional Preparation of Nutritionists and Dietitians" at the International Symposium on "Advances in Human Nutrition" at Pittsburgh recently . . . Dr. Werner F. Striedieck, associate professor of German, spoke on "Changes in the Social Structure of West German Society," at the fall meeting of the Central Pennsylvania Chapter of the American Association of Teachers of German in Reading, Pa., recently . . . Aurelia K. Adams, instructor in clothing and textiles, is co-author of a laboratory manual on "Clothing Selection," along with two former faculty members, Betty C. Delavan and Louise G. Richards. . .

Dr. R. Hadly Waters, professor of transportation, spoke on "Transportation — the Oldest Business and the Newest Profession," before the newly formed Johnstown Traffic Club recently . . . Charles J. Rowland and Dr. G. Kenneth Nelson, of the department of accounting and business statistics, participated in a discussion forum held recently by the Williamsport Chapter, National Accountants Association . . .

R. Rupert Kountz, professor of sanitary engineering, and Charles Forney, Jr., instructor in civil engineering presented a report on their research on an improved method of sewage treatment in a paper titled, "Total Oxidation Activated Sludge Systems," at the 31st annual conference of the Federation of Sewage and Industrial Wastes Association, in Detroit, recently . . . Franklin H. Cook, professor of business law, is the author of the first of five bulletins planned by Bureau of Business Research. His bulletin is titled, "Significant Ratios in the Electric Power Industry."

Dr. Donald P. Bleznick, assistant professor of romance languages, is author of an article appearing in the October issue of the Journal of History of Ideas titled, "Machiavellianism and Spain in the 16th and 17th Centuries." . . . Dr. Maurice A. Mook, professor of anthropology, will address a combined meeting of the Pennsylvania Folklore Society and the Philadelphia Folklore Society at the University of Pennsylvania on Sunday, Oct. 19, on "Names Among the Amish." . . .

Dr. Luther H. Harshbarger, University chaplain, preached at the U.S. Military Academy, West Point, N.Y., recently and lectured at Wooster College . . . Christian K. Arnold, staff assistant to the President, spoke on "Words, Words, Words" at the symposium and workshop on technical reporting Oct. 7-8 at the Army Chemical Center in Maryland, sponsored by the U.S. Army Chemical Warfare Laboratories. . .

Financing of Structures Explained

The following report tells how the University finances structures at University Park:

Penn State acquires buildings on the Main Campus by three different means: (1) The General State Authority provides buildings and facilities relating directly to academic activities. (2) The University borrows funds for most of the other structures, and repays these loans from self amortizing projects. In these instances no financial help derives from the state. (3) A few buildings are paid for by gifts.

As of June 30, 1957, the cost of constructing all existing structures on the Main Campus was \$85,000,000. Of these buildings 39% were constructed from State funds and 10% from gifts.

The principal borrowing is accomplished by selling Pennsylvania State University First Mortgage Bonds to the public. These bonds are general obligations of the University, secured by a First Mortgage on certain properties of the University, together with a pledge of the gross revenues of the mortgaged revenue-producing properties. The Indenture requires that the gross revenues each year must be equal to at least 200% of the annual debt service for the total amount of the outstanding bonds.

Residence and dining halls, student union buildings, graduate housing, ice-skating rinks, telephone buildings, and football fields are examples of facilities that the University finances and constructs by charging fees sufficient to amortize their cost over a long period of years. No State funds whatsoever go into facilities of this category. This applies to architects' fees, site preparation, landscaping, furnishings, and fixtures, as well as to construction costs.

The HUB was financed by an assessment the students placed upon themselves, and contributions by the Alumni.

Since history has proved that great universities can plan ahead for hundreds of years, the Board of Trustees, in planning University-financed projects, such as residence halls, has followed an austere course in selecting a

type of building that will require a minimum of maintenance over a long period of time. Although this policy may call for a larger initial capital investment, over the years the savings in maintenance more than make up for the increased initial outlay.

For the construction of academic buildings, utilities, and laboratories, the General State Authority, an agency of the Commonwealth, places a mortgage on the property which is pledged as security to the purchasers of the bonds issued by the Authority. Rents sufficient to amortize the costs in 30 years are appropriated by the State and are paid to bond holders as debt service. When the bonds have been paid off, the State turns the title over to the University.

A branch of the Federal Housing Administration, the Housing and Home Finance Agency, administers a fund from which the University may borrow for the construction of residence halls and dining facilities at an interest rate lower, currently, than the open market rate for money. At this time, the interest rate is $2\frac{3}{4}\%$ per year as opposed to the 3.68% interest costs of our Series B bond issue. The Federal Government has earmarked \$10,000,000 for our use. An additional \$13,625,000, provided by Penn State, would be obtained from the sale to the public of additional bonds for the jointly financed construction of approved projects.

Today the University has outstanding in the hands of the public \$34,600,000 in First Mortgage Bonds. Upon completion of the presently authorized construction of self-liquidating projects in the fall of 1961, there will be \$56,000,000 outstanding in First Mortgage Bonds.

For the fiscal year ending June 30, 1957, the total income of the University was somewhat over \$34,000,000, of which 37.3% came from the Commonwealth of Pennsylvania, 19.6% from the Federal Government, 14.5% from auxiliary enterprises, 16.4% from student fees, 7.6% from earnings of education departments, and 4.6% from private gifts, grants, and contracts.

Dr. Bernard To Give Paper In UCA Series

Dr. Jessie R. Barnard, professor of sociology, will present the second paper in the current series on "The Responsible University in an Age of Crisis," on Wednesday, Oct. 22, at 8 p.m. in the main lounge of the Helen Eakin Eisenhower Chapel.

The title of Dr. Barnard's paper is "The Role of Citizenship Bias in Scholarly Work." Discussants for the paper are Dr. W. Conrad Fernelius, head of the department of chemistry, and Dr. T. V. Gilpatrick, instructor in political science.

The series is sponsored by the Faculty Committee of the UCA.

Noted Architect To Lecture Oct. 22

G. E. Kidder Smith, noted architect, critic, and architecture photographer, will present a public lecture on Wednesday, Oct. 22, at 7:30 p.m. in Room 110, Electrical Engineering.

Smith will speak on "New Churches of Europe," sponsored by the department of architecture and the School of the Arts.

A graduate of Princeton University, with the degree of master of fine arts from the same institution, Smith has written and lectured extensively on much of the world's contemporary building, with books or articles on sixteen countries.

Calendar

Friday, Oct. 17

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Dr. J. E. Burke, manager of ceramic studies. General Electric Co., on "Sintering and Grain Growth in Oxides."

Players production of "The Druid Circle," by John Van Druten, 8 p.m., Center Stage.

Saturday, Oct. 18

Artists Series program by Sir John Gielgud, 8:30 p.m., Schwab Auditorium. Readings from Shakespeare.

Soccer, versus Colgate, 1:30 p.m.

Sunday, Oct. 19

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m. The Reverend Theodore Braun, in charge.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Leslie Cooke, associate general secretary of the World Council of Churches, Great Britain.

Conference on "Integration in the North," sponsored by the Committee on Interreligious Affairs." The Honorable Richardson Dilworth, mayor of Philadelphia, the speaker, 8 p.m., Room 121, Sparks Building.

Monday, Oct. 20

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. The Honorable Richardson Dilworth, mayor of Philadelphia, and trustee of the University, on "Integration in the Schools."

Color Slide Club, 7:30 p.m., Mineral Sciences Auditorium. M. R. Lynch, assistant professor of agricultural extension, on "Making the Most of Your Color Film."

Radiation Biochemistry Seminar, 4 p.m., 210 Armsby Building. Dr. Lorentz Eldjarn, Norsk Hydro's Institute for Cancer Research, The Norwegian Radium Hospital, Oslo, Norway, on "Chemical Protection Against Radiation."

Vesper Services, 4:15 p.m., Helen Eakin Eisenhower Chapel.

Engineering mechanics seminar, 4:15 p.m., Room 203, Engineering "A".

Conference on "Integration in the North," continued. Panel discussion, 8 p.m., Room 121, Sparks Building.

Tuesday, Oct. 21

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. Dr. Orin E. Burley, chairman, department of marketing and foreign commerce, University of Pennsylvania, on "Remarks on Some Aspects of Government Regulation and Marketing."

Science Institute for Teachers program, 4:15 p.m., Room 112, Buckhout. Dr. Ernest C. Pollard, chairman, department of biophysics, Yale University, on "What Biophysics is Attempting to Study and Discover."

Physics Colloquium, 4:15 p.m., Room 117, Osmond Laboratory. Dr. Ranan B. Banerji, research associate in engineering administration, Case Institute of Technology, on "Some Aspects of Information Theory."

Wednesday, Oct. 22

Lecture by G. E. Kidder Smith, noted architect, 7:30 p.m., Room 110, Electrical Engineering, on "New Churches of Europe," sponsored by the department of architecture and the School of the Arts.

UCA Series on "The Responsible University in an Age of Crisis," with Dr. Jessie R. Barnard, professor of sociology, on "The Role of Citizenship Bias in Scholarly Work," 8 p.m., Helen Eakin Eisenhower Chapel.

AAUP meeting, 8 p.m., Room 203 Willard Building. Robert L. Klotz, investment consultant, Green, Ellis and Anderson, on "Investment Planning for University Professors."

Thursday, Oct. 23

Hillel Foundation series on "The Nature of Religion," 8 p.m., with Drs. Helen Adolf, professor of German, E. H. Freund, professor of philosophy, and George M. Guthrie, associate professor of psychology, on "What Is the Nature of Religious Experience?"

Vesper Services, 4:15 p.m., Helen Eakin Eisenhower Chapel.

Players production of "Too True To Be Good," by G. B. Shaw, 8 p.m., Schwab Auditorium.

Friday, Oct. 24

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. E. F. Champagne, product manager, The Philips Electronics, Inc., on "X-Ray Microscopy and Its Applications."

American Chemical Society meeting, 8 p.m., Room 111, Boucke Building. Dr. Donald R. Martin, associate director, fuels chemical research, Olin Mathieson Chemical Corporation, on "Boron: A New Source of Power."

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.



The Penn State Thermal Lab, known nationally for its work in testing and experimenting in the field of temperature and humidity with materials and equipment, is headed by Frank A. Joy, professor of engineering research, left, and Everett R. McLaughlin. Above, Joy works on a recent study related to ceiling heating, and McLaughlin on test specimen of a type of exterior wall to be used in a New York office building.

Thermal Lab Solves Tough Problems For Industry

CURRENTLY undergoing rigid tests in the Penn State Climatemeter is an unusual type of exterior wall to be used in the 53-story Union Carbide Building now under construction in New York.

For Everett R. McLaughlin, associate professor of engineering research, the tests represent a challenge, in view of the fact that few, if any, other laboratories in the country, outside of government agencies, could do the testing.

Handling difficult thermal tests is an everyday occurrence to McLaughlin and Frank A. Joy, professor of engineering research, who are accustomed to unusual requests for help. There are a number of testing laboratories of a commercial nature connected with major companies which are only too happy to do routine, by-the-book, testing.

The difficult problems come to Penn State.

The facilities of the Thermal Laboratory, including the Climatemeter, are flexible enough to permit studies of heat transfer, vapor transmission, and the effects of sun, wind, ice and water, on such varied products as house and building construction materials, and electrical and mechanical equipment. One of the reasons for the flexibility is the foresight shown by the late Fred G. Hechler, director of the Engineering Experiment Department 15 years ago when the Climatemeter was built. The ingenuity of Joy and McLaughlin in setting up test procedures applicable to the unusual materials and devices to be tested is a second, equally important reason.

"We would not be justified," explains

Joy, "in routine testing of materials or equipment. As an educational and research facility, the Thermal Lab goes beyond routine testing."

Many of the test procedures used in the Laboratory have been adopted as standard practice by the American Society for Testing Materials and by industry generally. The current tests of the steel-aluminum-glass panels for the Union Carbide building may very well result in a standard procedure by which any laboratory, capable of handling this size material, can do this testing in the future.

The panels are being subjected to conditions simulating 150-mile per hour winds, temperatures from 20 degrees below zero to 100 degrees above, and heavy rains. Detailed parts of the panels are being tested in other ways also, but the ultimate usefulness of the tests depends on the results obtained on the entire assembly.

Therein lies one of the more important values of the Climatemeter. There are many organizations capable of testing equipment or materials of small size and some thermal testing installations can provide a wider range of temperature than the Climatemeter, which can be cooled to minus 60 deg. or heated to 110 deg. above zero. Few, however, can handle a small house, or brick wall of ample dimensions. The Climatemeter itself is two rooms, of about equal size, built inside a well-insulated structure 29 feet long, 24 feet wide, and 17 feet high. If the equipment will get through the doors or can be assembled inside the rooms, it can be tested.

Many tests of equipment, such as dehumidifiers, and building materials are made to simulate nature but accelerated. For example, the panels now under test are treated to alternately hot and cold conditions, within a space of only a few hours. Design engineers, wont to build safety factors into everything they design, are not satisfied to test only for the "reasonable" conditions under which the equipment or materials are to be used.

There is another reason for acceler-

(Continued on page three)

Items of Interest

Dr. J. J. Kaufman, associate professor of economics, is author of an article titled, "Free Speech and the Taft-Hartley Law," in the summer issue of the "Journal of Social Science." . . . **Dr. Hans Panofsky**, professor of meteorology, will participate in a basic research planning conference on turbulence and convection at Hartford, Conn., Nov. 3 and 4 . . .

John H. Friese, professor of industrial arts education, has revised a textbook manual, titled "Course Making in Industrial Education," published by Charles A. Bennett Co. . . . **Joseph L. Grucci**, associate professor of English and director of the Poetry Workshop, gave a reading of poems from his book "Time of Hawks" before the Pennsylvania Poetry Society recently.

Dr. Harold E. Dickson, professor of the history of art and architecture, lectured on the mid-19th century Pennsylvania painter, John F. Francis, at Bucknell University recently . . . **Dr. Frances M. Andrews**, professor of music education, is one of the authors of a college textbook, "Your School Music Program—A Guide to Effective Curriculum Development" published recently . . .

A series of articles by **Robert G. Weaver**, assistant professor of English, and **Harold P. Zelko**, professor of speech, titled "Talking Things Over on the Job," which appeared originally in Supervision magazine, has been reprinted by "Notes and Quotes" . . . **Dr. E. Orth Mallott**, associate professor of finance, is chairman of a conference of the American Management Association titled "Finding Money For Small Business," to be held in November. . . .

Ossian MacKenzie, dean of the College of Business Administration, was elected secretary-treasurer of the Middle Atlantic Association of Colleges of Business Administration recently . . . **Dr. Richard M. Cowell**, lecturer in accounting, addressed the Hotel Greeters Association on "Hospitality Trends (The 1957 Hotel Story)" on Oct. 7 . . . **Dr. Rocco Carzo, Jr.**, assistant professor of management, discussed the results of extensive research in the field of laundry management in the Fall, 1958, issue of "Business Horizons," . . .

Dr. Werner F. Striedieck, associate professor of German, talked on "Changes in the Social Structure of West German Society" at the fall meeting of the Central Pennsylvania chapter, American Association of Teachers of German last week . . . **Dr. Asa Berlin**, associate professor of speech education, spoke on normal growth and development of children before the Nurses Institute of Cerebral Palsy recently.

Dr. Bruce M. Siegenthaler, associate professor of clinical speech, is co-author with former graduate student Harriet Kaplan of an article in a recent issue

of "Laryngoscope" . . . **Dr. Gerald G. Stout**, research assistant in the Engineering Experiment Department, is the author of "Successful Truck Farming" published recently by The Macmillan Co. . . . **Dr. Edward C. Thaden**, associate professor of history, is author of an article, "Montenegro: Russia's Troublesome Ally, 1910-1912," published in the July edition of the Journal of Central European Affairs . . .

Six members of the faculty of the departments of foods and nutrition and hotel and institution administration participated in the 41st annual meeting of the American Dietetic Association this week, including **Dr. Miriam E. Lowenberg**, **Dr. Ruth L. Pike**, **Dr. Mary E. Fuqua**, **Esither A. Atkinson**, **G. Alma McDougall**, and **Clarice D. Gullickson**.

Dr. Leo H. Sommer, associate professor of chemistry, spoke this week at Wayne State University on "Stereochemistry of Substitution Reactions at a Silicon Atom" based on his research here and will give the same talk at the University of Cincinnati on Oct. 30 . . . **Dr. Frederick B. Marbut**, professor of journalism, addressed the Tyrone Rotary Club recently on his South American trip this year . . . **Elwood F. Oliver**, director of the department of security, and **Lorin J. Elder**, supervisor of the safety division, participated in the National Safety Congress meetings in Chicago this week.

Appointments Announced

Dr. Robert W. Frank, Jr., who served on the faculty of Illinois Institute of Technology for 10 years, has been named professor of English.

A graduate of Wabash College, **Dr. Frank** completed work for his master of arts degree from Columbia University and doctor of philosophy degree from Yale. He has taught at Lafayette, Rochester, Princeton, and Northwestern.

Dr. Robert D. McCarthy, research associate at the University of Maryland, became research associate in dairy science at Penn State on Oct. 1. A graduate of Penn State in 1954, he obtained the master of science degree in dairy science in 1954 and earlier this year he was conferred the doctor of philosophy degree from the University of Maryland.

Dr. John D. McAulay, for the past eight years head of the department of education at Southern Oregon State College, has been named associate professor of education. For the past two years, he has been on leave to assist in the establishment of a teacher education program in technical schools of education and to lecture in Australia and New Zealand under the Fulbright program. A graduate of the University of Alberta, he has advanced degrees from the University of British Columbia and Stanford University.

Forest D. Thomas II, graduate of Brigham Young University with a bachelor of science degree in chemistry, has been named research associate in chemistry.

Trustees Approve Leaves For 15 Faculty Members

A leave of absence for **Dr. Ralph F. Nielsen**, professor of petroleum and natural gas engineering, was among 15 approved by the Board of Trustees at its recent meeting.

Dr. Nielsen will present a series of lectures to a group of engineers in Italy in February and will study petroleum production methods, research methods, and university engineering curricula in Europe and devote part of his leave to the completion of a petroleum engineering book he is writing with **Dr. Emil J. Burcik**, associate professor of petroleum and natural gas engineering, and a handbook for petroleum engineering. He will be on leave from Feb. 1 to July 31.

Other leaves include the following:

Dr. Emory J. Brown, associate professor of rural sociology, Oct. 1 to Sept. 30, 1949, to serve as visiting professor at the National Agricultural Extension Center for Advanced Study, University of Wisconsin.

Sadao Hoshino, research associate in physics, Oct. 1 to June 30, to work with the neutron diffraction group at Brookhaven National Laboratory.

Mehmet H. Binark, research associate in mechanical engineering, Oct. 1 to June 30, to return to his home in Turkey.

Dr. William A. Steele, assistant professor of chemistry, extension of leave until Nov. 30 to continue work at the low temperature laboratory at Oxford University.

Sudhir Kumar, assistant professor of engineering mechanics, Sept. 1 to June 30, to serve as liaison officer with the ordnance group at Duke University.

Thomas R. Terrill, instructor in agronomy, Oct. 1 to Jan. 15 to complete work toward a master of science degree.

Ruth E. Gates, instructor in clothing and textiles, Sept. 1 to June 30, to complete work toward the doctor of philosophy degree.

George B. Lott, research assistant, Ordnance Research Laboratory, Oct. 1 to June 30, to enroll for graduate work.

Ernest L. Mackey, assistant county agricultural agent, Sept. 16 to June 30, to take graduate work in farm management.

Leaves for military service to the following assistant county agricultural agents: **Simon K. Garber**, Sept. 8 to June 30; **Jerome E. Kleisath**, Aug. 1 to June 30; **Charles F. Ross**, Sept. 1 to June 30; **Edward J. Woods**, Oct. 1 to June 30.

Lost And Found At HUB

Lost and found service for the University is now concentrated at the Hetzel Union Building. Articles should be turned in at the HUB desk and may be picked up there. Finders will be given a duplicate of a tag attached to the article and if the article is not claimed in 30 days, the finder may then claim it.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

- Nov. 2—Dr. Robert E. Fitch, dean, Pacific School of Religion, Berkeley, Calif.
 Nov. 2—Lecture on Religion by Dr. Robert E. Fitch, dean of Christian Ethics, Pacific School of Religion, 7:30 p.m.
 Nov. 9—Dr. Roy C. Buck, associate professor of rural sociology.
 Nov. 16—The Rev. Canon Bryan S. W. Green, canon of Birmingham Cathedral and Rector of St. Martin's in the Bull Ring, Birmingham, England.
 Nov. 23—Dr. Elfan Rees, permanent representative in Europe of the Commission of the Churches on International Affairs and advisor on Refugee Affairs to the World Council of Churches, Great Britain.

CONCERTS

- Nov. 2—Artists Series program by Guiomar Novaes, Schwab Auditorium, 8:00 p.m.
 Nov. 9—Recital by Raymond Brown, assistant professor of music, 4 p.m.

DRAMATICS

- Nov. 14—Artists Series program by The Canadian Players, in "As You Like It." (Also matinee, Nov. 15.)
 Nov. 15—Artists Series program by The Canadian Players, in "Devil's Discipline."

ATHLETICS

- Nov. 1—Football, vs. Furman, 1:30 p.m.
 Nov. 8—Cross country, vs. Manhattan, 1 p.m.
 Nov. 15—Football, vs. Holy Cross, 1:30 p.m.
 Nov. 15—Soccer, vs. Army, 10 a.m.

LECTURES

- Nov. 10—Sigma XI Lecture by Dr. Paul Delahay, Boyd professor of chemistry, Louisiana State University, on "Electro Chemistry and Kinetics," 8 p.m., Mineral Sciences Auditorium.

Thompson Heads Department Of Hotel Administration

Dr. Earl S. Thompson, assistant director, School of Hotel, Restaurant, and Institutional Management at Michigan State University, has been named head of the department of hotel and institution administration of the College of Home Economics.

He succeeds Esther A. Atkinson, head of the department for the last 14 years, who will continue as professor of hotel and institution administration and as chief advisor to students majoring in hospital dietetics.

A graduate of Southern Illinois University, Dr. Thompson was granted advanced degrees by the University of Illinois. He served as director of housing at Illinois from 1945 to 1952, then joined the staff at Michigan State.

Halloween Dinner At HUB

A special Halloween Candlelight Dinner will be held at the Terrace Room of the Hetzel Union Building on Thursday, Oct. 30, from 5 to 6:45 p.m.

The menu will include roast turkey, ham steak, beef stew with biscuits, and breaded veal steak and feature apple dumpling with vanilla sauce for dessert. Suitable Halloween decorations will be hung.

Thermal —

(Continued from page one)

ated conditions, however. Within the space of only a few short weeks of actual test, McLaughlin and Joy attempt, in one sense, to predict the behavior of the equipment or material over a period of many years. They can't conduct tests that long, but they can set up conditions which they believe will be as severe as those over the longer period.

But "unreasonable" conditions cannot be used to predict the behavior of building materials over a period of many years. Instead, Joy prefers the natural conditions provided in the Penn State Test House atop the flat roof of the Thermal Laboratory. A carefully planned series of panels built into the house walls or roof sometimes shows in one year what may be expected in 50 years of service.

"Concealed condensation within the structure," Joy says, "is the villain in many building problems. Our basic studies of the migration of moisture are fundamental to good building design." A continuing program in this field is sponsored by the Armstrong Cork Co. as a grant-in-aid.

Many tests are conducted in the so-called "guarded hot box" where standard conditions for relatively small sections can be controlled for temperature and humidity to a fine degree. If the sections are to be large, then the Climatemeter is used. Recently, The Ceramic Tile Panels, Inc., asked to have tests made on products it proposed to use for exterior construction. A four-foot by eight-foot panel, too large for the guarded hot box, was tested in the Climatemeter.

From the various tests, of equipment or materials, come results of interest primarily to the company involved. But invariably the tests produce two other important results: training of graduate students and formulation of basic ideas and test methods. Many important papers in the field of heat and vapor transfer have been prepared.

The program of the Thermal Lab sometimes travels in rather odd directions. For example, tests are currently underway on the roof of the laboratory on a type of glass designed to reduce effects of solar radiation and reduce glare from the sun. Other tests in the past have sought to determine the effects on insulation and paint resulting from the transmission of vapor from the inside of the house to the outside.

One room of the Climatemeter is currently being used in the test of starting diesel engines at extreme low temperature. This work is being done by W. E. Meyer, professor of mechanical engineering.

The total effect of the work of the Thermal Lab, a section of the Engineering Experiment Department, is to bring engineers and designers to Penn State's doorstep from all over the country. The Climatemeter is widely known and industrial firms look upon the Lab people and facilities as a source of vital information.

Report from the Registrar

WITHDRAWALS

(Campus)

- 1 Adler, Joseph Wayne, A L, Sept. 22
 1 Antonio, James Francis, METAL, Sept. 23
 7 Ball, Judith Thompson, A L, Sept. 22
 1 Bell, Larry Dean, ENG, Sept. 26
 7 Bezio, Bernard Raymond, E E, Sept. 19
 4 Bishop, Cooper Thomason, GN AG, Sept. 15
 2 Bleiman, Avigail, A L, Sept. 15
 1 Brickman, Judith Doris, COUN, Sept. 17
 1 Britten, Ronald Harold, E E, Sept. 16
 1 Bryhnsky, Bill John, ARCH, Sept. 22
 1 Clutter, Howard H., B A, Sept. 15
 1 Crowe, Edward Cromwell, Jr., E E, Sept. 19
 Sp Curry, Robert W., EL ED, Sept. 15
 5 Cutler, Virginia Barone, A L, Sept. 19
 3 Ferguson, Judith W., B A, Sept. 26
 1 Elliott, Dana Evalyn, MED T, Sept. 22
 4 Eshaghoff, David, AG, Sept. 16
 1 Frenderg, John Edwin, AG E, Sept. 20
 1 Fryer, Suzanne, H EC, Sept. 16
 Sp Gloman, Clementine Nancy, SPECIAL, Sept. 16
 3 Graham, Jane Betsy, A L, Sept. 15
 5 Hauber, Linda Lou, A ART, Sept. 17
 1 Heyd, Gary L., ENG, Sept. 15
 Gr Hill, Charles M., SEC ED, Sept. 19
 3 Klein, Kathleen V., EL ED, Sept. 18
 4 Knepley, Walter Charles, E E, Sept. 15
 1 Kreider, Craig, S., A L, Sept. 15
 Gr Kuchas, Justine F., EL ED, Sept. 15
 1 Leff, Marcia, B ED, Sept. 15
 3 Levy, Gladys M., EL ED, Sept. 15
 3 Levy, Sandra S., EL ED, Sept. 18
 1 Libby, Donna F., PSY, Sept. 15
 Gr McCord, James William, M E, Sept. 23
 Gr McCullough, William C., AG ED, Sept. 15
 1 Mann, Barbara Alice, H EC, Sept. 17
 1 Mariano, Thomas M., B A, Sept. 16
 1 Miller, Peter Theodore, A L, Sept. 23
 1 Miller, Robert Chris, ENG, Sept. 26
 1 Neff, Ann E., EL ED, Sept. 19
 Gr Neuguth, William Frederick, GEOL, Sept. 16
 3 Newell, Thomas K., COUN, Sept. 19
 4 Noble, Thomas Alvin, AG E, Sept. 25
 2 Oswald, Wilur C., B A, Sept. 16
 1 Reed, Lulu L., A L, Sept. 16
 5 Reid, Barry H., C E, Sept. 18
 1 Riske, John Paul, Jr., Sept. 24
 3 Schuler, Charles D., B A, Sept. 15
 Gr Sparr, Edgar Counsman, SEC ED, Sept. 20
 Gr Spraglin, William E., ED A, Sept. 15
 1 Steiner, Anita E., EL ED, Sept. 23
 2 Steptoe, Robert L., C E, Sept. 16
 2 Sweger, Wayne, Nolan, H A, Sept. 15
 1 Thomas, Barbara Jane, RC ED, Sept. 18
 1 Thompson, Thomas Leigh, AG E, Sept. 20
 Sp Updegrave, Mabel Irene, SPECIAL, Sept. 20
 1 Weiser, Nancy Louise, A ED, Sept. 22
 3 Wentz, Sandra A., B A, Sept. 19
 5 Whitner, Barbara J., A ED, Sept. 17
 1 Wisnievski, Robert Joseph, ENG, Sept. 26

WITHDRAWALS

(University Centers)

Associate Degree Program

- 1 DuDiak, Chester, E T, Sept. 23
 1 Jackson, Robert Henry, D D T, Sept. 19
 1 Kensky, William E., E T, Sept. 18
 3 McNeel, Harry Victor, D D T, Sept. 19
 1 Nitchun, Richard E., E T, Sept. 16
 1 Peleschak, Alex, DDT, Sept. 17
 1 Rehrig, Thomas E., E T, Sept. 16
 1 Shaffer, Frank K., E T, Sept. 19
 3 Tuman, William Gerard, DDT, Sept. 23
 3 White, John A., D D T, Sept. 16

Bachelor Degree Program

- 1 Bothell, Donald Beryl, AG ED, Sept. 19
 1 Claar, Clara J., H EC, Sept. 16
 2 Deschamps, Louis French, I A, Sept. 25
 1 Gerenda, Michael, B A, Sept. 18
 1 Gnagi, Kenneth Russell, ENG, Sept. 19
 1 Gwiazdowski, Anne T., PSY, Sept. 15
 1 Jay, Roert M., ENG, Sept. 15
 1 Lane, James Kermit, Sept. 19
 1 Mancuso, Thomas J., B A, Sept. 16
 1 Morningstar, Roert D., ED, Sept. 19
 3 Shrader, Byron Edward, C E, Sept. 19
 1 Versage, Constance A., A L, Sept. 15

The following reasons were given for withdrawals: Personal 43, Scholastic 4, Financial 6, Illness 6, Transfer 10, Military 3, Other 9.

L. H. Bell, Borland Succumb

Louis H. Bell, director of the department of public information for 15 years and since July associate professor of journalism, died on Oct. 17 while in New York on business for the University Press, of which he was director.

A graduate of Penn State in journalism in 1929, he had worked for the Chester Times, the Sunday Star and Morning News of Wilmington, Del., the Upper Darby Chronicle, and the Philadelphia Bureau of the International News Service. He was appointed instructor in journalism in 1934 and served the University for the past 25 years.

Andrew A. Borland, 80, professor emeritus of dairy science, died Oct. 12, at his home. He served on the faculty from 1910 till his retirement in 1948, except for a four-year period at the University of Vermont. He headed the department of dairy science from 1919 until his retirement.

Father D'Arcy Lectures Thursday On History

The Very Reverend Martin Cyril D'Arcy, S.J., M.A., will give the second lecture in the Distinguished Lecture Series in Philosophy on Thursday, Oct. 30, at 8 p.m. in Room 110, Electrical Engineering. He will speak on "The Meaning of History."

The lecture was previously scheduled for Friday, Oct. 31.

Father D'Arcy is the author of many books and essays on religious and philosophical topics, including *Thomas Aquinas, The Nature of Belief, The Problem of Evil, The Mirage of Truth, and The Life of the Church.*

In addition to the public lecture, Father D'Arcy will also lecture to the staff of the department of philosophy and others interested at the professional level.

Films Listed For Review

Materials listed below have been requested. Please call Extension 2051 and give code number of those you would like to see; you will be notified when they arrive so that you can arrange a preview showing in Room 9, Library.

- O-1 Reproduction in Plants
- O-2 Theodore Roosevelt — American
- O-3 Theodore Roosevelt — American
- O-4 Harlem Wednesday
- O-5 English History: Restoration and Glorious Revolution
- O-6 English History: Absolutism and Civil War
- O-7 Home Again (effect of heart disease on family)
- O-8 Too Young to Say (testing for hearing disorders)
- O-9 Reach Into Silence (recruitment of workers with handicapped children)
- O-10 Dangerous River (archeology along the Big Horn)
- O-11 Rhythmic (by Norman McLaren)
- O-12 Panama Canal
- O-13 Let's Build a City (elementary social studies project)
- O-14 Atomic Physics series (five films)
- O-15 Al in the Hospital (elementary health education)
- O-16 Go to Blazes (fire prevention in the home)
- O-17 Animal Life at Low Tide
- O-18 Aquarium Wonderland
- O-19 Introduction to Psychodrama

Dean Fitch To Open Lectures On Religion

A series of Lectures on Religion, sponsored by the Faculty Committee on Religious Studies in the College of the Liberal Arts, will be opened by Dr. Robert E. Fitch, dean and professor of Christian ethics at Pacific School of Religion.

Dr. Fitch will speak at 7:30 p.m. on Sunday, Nov. 2, in Room 121, Sparks Building.

Other speakers on the program will be Dr. Will Herberg, graduate professor of Judaic studies and social philosophy, Drew University, and the Reverend William Granger Ryan, president of Seton Hill College.

Dr. Boulding Gives Rufus Jones Lecture

Dr. Kenneth E. Boulding, professor of economics at the University of Michigan, will present the Rufus Jones Lecture on Monday evening, Oct. 27, at 7:30 p.m. in Room 121, Sparks Building.

He will speak on "Redeemable Man and Redemptive Society."

A graduate of Oxford University, Dr. Boulding has taught at the University of Edinburgh and at several universities in this country. In 1949, he was awarded the John Bates Clark Medal by the American Economic Association. He has written many books in the field of economics and also books and pamphlets presenting the point of view of the Society of Friends on peace and economic relations.

Dr. Garrett Next SCIT Colloquium Speaker

Dr. Alfred B. Garrett, professor of chemistry at Ohio State University, will be the speaker at the weekly colloquium of the Science Institute for Teachers on Tuesday, Oct. 28 at 4:15 p.m. in Room 112, Buckhout Laboratory.

He will speak on "What Happens Between Zero Degrees Absolute and Five Billion Degrees?"

Dr. Garrett, who has been at Ohio State since 1935, has done research on photovoltaic cells, ionic equilibria in solution, low temperature studies of electrolytes and alkyl derivatives of boron hydrides.

Guiomar Novaes Piano Concert Sunday, Nov. 2

Distribution to the public of tickets for the piano recital by Guiomar Novaes on Sunday, Nov. 2, will be held on Thursday and Friday, Oct. 30 and 31 from 9 a.m. to 12 noon and 1 to 5 p.m. at the Hetzel Union Building desk.

Miss Novaes will give a program consisting of three sonatas by Scarlatti; Beethoven's *Andante in F Major*; *The Chromatic Fantasy and Fugue*, by Bach; *Reflets Dans L'Eau* by Debussy; *Intermezzo in B Flat Minor*, by Brahms, and *Capriccio*, by Brahms, and sonatas by Chopin.

Calendar

Friday, Oct. 24

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. E. F. Champayne, product manager, The Philips Electronics, Inc., on "X-Ray Microscopy and Its Applications."

American Chemical Society meeting, 8 p.m., Room 111, Boucke Building. Dr. Donald R. Martin, associate director, fuels chemical research, Olin Mathieson Chemical Corporation, on "Boron: A New Source of Power."

Players production of "Too True To Be Good," by G. B. Shaw, 8 p.m., Schwab Auditorium. (Also Saturday night.)

Center Stage production of "The Druid Circle," by John Van Druten, 8 p.m. (Also Saturday night.)

Meeting of faculty, College of Mineral Industries, 4:15 p.m., Mineral Sciences Auditorium.

Saturday, Oct. 25

Football, versus Syracuse University, 1:30 p.m.

Cross Country, versus Michigan State, 1 p.m.

Cosmopolitan Cub square dance and party, 8 p.m., Rooms 2 and 3, White Hall. Refreshments.

Sunday, Oct. 26

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Reverend Genevieve Dilts, in charge.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Charles C. Noble, dean, Hendricks Memorial Chapel, Syracuse University.

Artists Series program by Robert Iglesias Ballet Espanol, 8 p.m., Recreation Building.

Monday, Oct. 27

Faculty Luncheon Club, 12 noon, Dining Room "A", Hetzel Union Building. Dr. Ruth C. Silva, associate professor of political science, on "The Coming Election."

Economics Faculty Seminar, Dr. K. E. Boulding, professor of economics, University of Michigan, on "The Pure Theory of Conflict." Dining room "B" and "C", Hetzel Union Building, 12 noon.

Rufus Jones Lecture, by Dr. K. E. Boulding, 7:30 p.m., Room 121, Sparks Building, on "Redeemable Man and Redemptive Society."

Vesper Service of Worship, 4:15 p.m., Helen Eakin Eisenhower Chapel.

Engineering mechanics seminar, 4:15 p.m., Room 203, Engineering "A".

College of Physical Education and Athletics faculty meeting, 7 p.m., Room 241, Recreation Building.

Tuesday, Oct. 28

Colloquium of Science Institute for Teachers, 4:15 p.m., Room 112, Buckhout Laboratory. Dr. Alfred B. Garrett, Ohio State University, on "What Happens Between Zero Degrees Absolute and Five Billion Degrees?"

Mineral Industries Colloquium, 4:15 p.m., Mineral Sciences Auditorium. Mr. Leon Long, Lamont Geological Observatory, Columbia University, on "Application of Radioactive Age Determinations to Solving the Metamorphic History of the Eastern United States."

Physics Colloquium, 4:15 p.m., Room 117, Osmond. Dr. Eugene Ackerman, associate professor of physics, on "Paramagnetic Changes During Enzyme Reactions."

Wednesday, Oct. 29

Graduate Mining seminar, 4:20 p.m., Room 24, Mineral Industries.

Thursday, Oct. 30

Distinguished Lecture Series in Philosophy, 8 p.m., Room 110, Electrical Engineering. The Very Reverend Martin Cyril D'Arcy, S.J., M.A., on "The Meaning of History."

Hillel Foundation lecture discussion in the series, "The Nature of Religion," 8 p.m. Rabbi Benjamin Kahn, director of the Hillel Foundation, on "Biblical Tradition." Public invited.

Vesper Service of Worship, 4:15 p.m., Helen Eakin Eisenhower Chapel.

Friday, Oct. 31

Players production of "The Druid Circle," 8 p.m., Center Stage. (Also Saturday night.)

Contracts To Be Let For Residence Halls

The Board of Trustees has authorized the letting of contracts for the construction of residence halls in the Pollock area east of McElwain and Simmons Halls.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

NOT satisfied only to prevent dental caries by such modern means as fluorinated water, science continues to search for basic causes for its development, in the hope of further reducing its incidence.

In the basement of Oak Cottage, Dr. Mary L. Dodds, professor of foods and nutrition, who was one of those more than 20 years ago to recognize the value of fluorine in caries prevention, has started a research project under a \$19,833 grant from the National Institutes of Health which is designed to show what effects heat processed foods have on dental caries in rats.

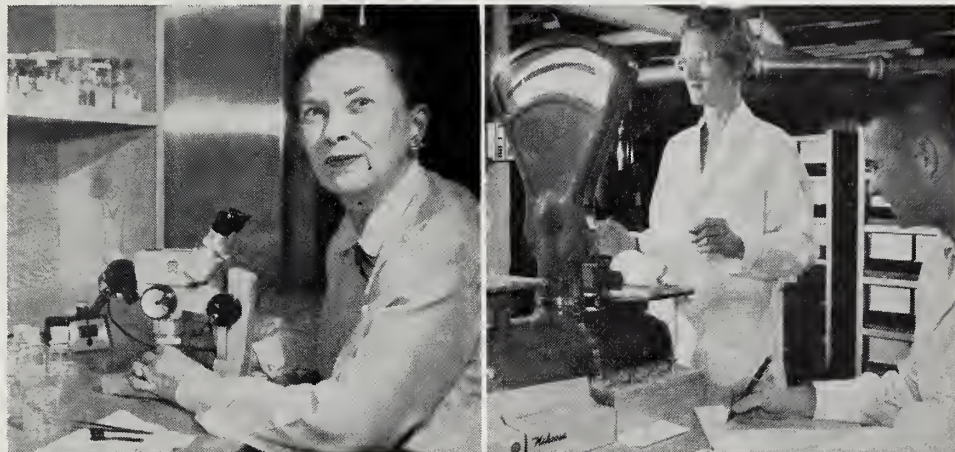
"Some studies have indicated that heat processed cereal grains may cause more caries than unprocessed grains," Dr. Dodds explains. "The evidence is far from conclusive."

Rats are used in the studies, Dr. Dodds points out, because of the similarities found between development of certain types of caries in rats and in humans. Within the period of only a couple months caries can be produced in growing rats which would simulate those in humans developing over a period of years.

It has been two decades since Dr. Dodds worked in dental caries research, when she was at the Mellon Institute, but Dr. F. J. McClure, of the NIH, who has worked diligently in this area, remembered her previous work and encouraged her to undertake these new studies. Dr. Dodds' research here and elsewhere since her work at Mellon Institute has been in human nutrition, not unrelated, and has earned for her a wide reputation in the field.

The current studies, which began in January, require hundreds of a certain strain of rat. After initial efforts in having the rats shipped in were unsatisfactory, Dr. Dodds began her own colonies.

To date, studies with various forms of wheat and corn cereals have been made and those with rice are now underway. Initial experiments, Dr. Dodds explains, raised more questions than they answered but they indicated that the original thesis (that heat process-



Research in dental caries is underway in Oak Cottage by Dr. Mary L. Dodds, professor of foods and nutrition, left, with the help of Ann Shevock, graduate assistant, and Eugene Kemmerling, research technician. The studies are slated to take at least five years.

Dental Caries Studies Raise Many Questions

ing of cereals causes caries) may not be entirely accurate.

"It is certainly too early in the game to make any generalizations," Dr. Dodds says. "The studies have shown us at least one thing—it isn't going to be easy to isolate any one causative factor."

Nutrition as a factor in dental caries has been well established. Lysine, one of the amino acids common in foods, is believed to be helpful in reducing caries but it also has a bearing on general growth. Total protein level also has an important effect on growth and must therefore be controlled if the effects of lysine are to be noted. All these complicating factors, and many others, suggest that there is still much to be learned about the causes of caries.

The rats are weaned at three weeks of age, then placed on their controlled diets for 60 days. At that time the animals are sacrificed and the lower jaws

are autoclaved, examined microscopically, and scored for caries development, which may be one of a number of different types. To check scoring methods, some of the jaws are sent to the National Institutes of Health. Chemical analysis of the feeds is done on campus.

Dr. Dodds' previous work at Penn State has been on ascorbic acid metabolism in humans, food palatability, calcium intake and bone density, and other similar human nutrition studies. She received the \$1,000 Borden Award of the American Home Economics Association for her work last year and her research results are widely known.

The NIH has indicated that the current studies will be supported for five years. If Dr. Dodds continues to raise as many questions as she has in the first six months of the research, the project will take at least that long.

Items of Interest

Dr. Don G. McGarey, professor of education, is co-author with Dr. Willis E. Pratt, president of Indiana State Teachers College, of a handbook titled, "A Guide to Curriculum Improvement in Elementary Schools" published by the Public School Publishing Co. . . . **George M. Dusingher**, professor of mechanical engineering, is author of a paper, "Effective and Local Surface Coefficients in Fin Systems," in the October issue of the American Society of Mechanical Engineers journal.

Delpha E. Wiesendanger, Mrs. Ruth H. Smith, and Mrs. Cecile P. Sinden, of the College of Home Economics, participated in a national conference on "Improvement of Instruction in Housing," at Iowa State College last week. . . . **Gilbert Aberg**, radio-television producer in the department of public information, penned a letter appearing in the November issue of Scientific American commenting on a previous issue of the magazine in which the similarity between the work of artists and scientists was stressed.

Wesley P. Winter and Inyong Ham, assistant professors of industrial engineering, represented Penn State at a joint meeting of educators and the public relations committee of the Steel Founder's Society of America in Cleveland this week. . . . **Clarice D. Gullickson**, professor of hotel and institution administration, participated in three regional conferences on county jail problems in food service recently, at the request of the Commissioner of Correction of the Commonwealth. . . .

The October issue of Pennsylvania History contains an article by **Dr. Philip S. Klein**, professor of history, on "The Era of Good Feeling in Pennsylvania," and also an article by **Dr. Clark C. Spence**, assistant professor of history, on "The Lancaster: An Early Steam Plow." . . . **Rabbi Benjamin M. Kahn**, lecturer in Hebrew and Hillel Foundation director, gave a paper titled "Religious Diversity in the Hillel Foundations," before the annual session of the National Hillel Commission, based on a year-long study he made of the religious policies in 60 full-time Hillel Foundations at universities in the U.S., Canada, and England. . . .

Dr. Street Named To Economics Faculty

Dr. Donald M. Street, for the past two years lecturer in banking at Columbia University, has been named visiting associate professor of finance.

A graduate of Princeton University, he received the degree of doctor of philosophy with a major in economics from Columbia. Dr. Street held various positions with the Guaranty Trust Co., New York from 1919 to 1954.

Nelson Elected President Of Speech Association

Dr. Harold E. Nelson, associate professor of speech, was elected president of the Pennsylvania Speech Association at its recent meeting in Greensburg.

A number of faculty members of the department of speech and the Speech and Hearing Clinic took part in the meetings.

Dr. Bruce Siegenthaler was named to continue as editor of the Association's "Annual".

Dr. Nelson, David Jabusch, Dr. James V. Frick, Harold P. Zelko, Dr. Harold J. O'Brien, and Dr. Eugene T. McDonald, presented papers, chaired section meetings, or spoke to the Association members.

Dr. Asa Berlin, associate professor of speech education, served as director in the work of compiling a directory of speech and hearing clinicians.

Bids To Be Requested For Research Center

The Board of Trustees has authorized the requesting of bids for two additional units for the Research Center, of which one unit has been started in the area east of the Research Reactor.

The two new units will be similar to the one now under construction and have movable partitions dividing the main floor into 30 ft. by 30 ft. rooms.

Annual UCA Canvass Set For Next Week

The annual University Christian Association canvass will be made Nov. 5-12 to provide information about and interpretation of the UCA's objectives, program, and needs and to offer the opportunity for faculty and staff to renew or begin their membership in the UCA.

Dr. Franklin H. Cook, professor of business law, is general chairman of the canvass. Last year more than 1000 faculty and staff members were members or contributors to the work of the UCA. The goal for this year's canvass is \$3,300, less than one-tenth of the total UCA budget and only \$350 more than last year.

College representatives are: A. K. Blackadar (Mineral Industries), Donald Cook (Administration), Ray Farwell (Engineering and Architecture), William Gray (Liberal Arts), Elmer Gross (Physical Education and Athletics), Dorothy Houghton (Home Economics), Merwin Humphrey (Agriculture), C. T. McNerney (Education), Vernon W. Myers (Chemistry and Physics) and A. H. Reece (Business Administration).

Senate Meets Thursday

The University Senate will meet on Thursday, Nov. 6 at 4:10 p.m. in the assembly room of the Hetzel Union Building.

Two-Thirds Of Faculty Have Advanced Degrees

A report by the department of personnel services indicates that of the 2125 full-time and part-time faculty members presently on the staff, two-thirds have advanced degrees.

The report included the Agricultural Extension staff, all county agents, home economists, and all others with the rank of research assistant, research associate, instructor and higher, including Mont Alto but not the centers.

A total of 700 (32.9 per cent) hold doctorate degrees and 738 (34.6 per cent) list master's degrees as the highest obtained. Only 49 (2.3 per cent) have no collegiate degree.

The report also shows that 1782 members of the faculty are men and 343 are women.

Half Of Students Live On Campus, Survey Shows

Figures released by the department of housing reveal that of the 14,634 students, including special and graduate students, registered on campus, 41.3 per cent live on campus and 32.5 per cent live in private off-campus housing. The other 26.2 per cent live in fraternities, in trailers, or live at home.

Among the 12,461 full-time undergraduate students, 5897, or 47.1 per cent live in campus residence halls and 2059, or 16.5 per cent, live in fraternity houses.

Among women students, 81 per cent of the total number registered, live in University residence halls and of the coed undergraduates, 92.3 per cent live on campus.

Offices Closed Nov. 11

Although classes will be held on Tuesday, Nov. 11 as scheduled, University offices will be closed that day in observance of Veterans Day. Essential services necessary to the academic program will be maintained.

Schedules for other holiday seasons in the near future have also been announced. Offices will be closed on Thursday, Nov. 27, for Thanksgiving Day.

At Christmas season, offices will be closed from 5 p.m. Tuesday, Dec. 23 until 8 a.m. Monday, Dec. 29. They will also be closed Thursday, Jan. 1.

Queen Of Greece Unable To Visit

The United States Department of State has informed University officials that Queen Frederika of Greece will be unable to make the proposed trip to the campus contemplated earlier.

A telegram from the State Department said: "Greek Embassy regrets full schedule will not permit Queen Frederika visit Pennsylvania State University. Your gracious offer is appreciated by Greek Government and State Department."

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

Nov. 9—Dr. Roy C. Buck, associate professor of rural sociology.

Nov. 16—The Rev. Canon Bryan S. W. Green, canon of Birmingham Cathedral and Rector of St. Martin's in the Bull Ring, Birmingham, England.

Nov. 23—Dr. Elfan Rees, permanent representative in Europe of the Commission of the Churches on International Affairs and advisor on Refugee Affairs to the World Council of Churches, Great Britain.

CONCERTS

Nov. 9—Recital by Raymond Brown, assistant professor of music, 4 p.m.

Nov. 16—Organ recital by George Ceiga, 4 p.m., Schwab Auditorium.

Nov. 23—Jazz Club concert by Stan Kenton orchestra, 8 p.m., Recreation Building.

DRAMATICS

Nov. 14—Artists Series program by The Canadian Players, in "As You Like It." (Also matinee, Nov. 15.)

Nov. 15—Artists Series program by The Canadian Players, in "Devil's Disciple."

Nov. 21—Center Stage production of "The Reluctant Debutante" by William Douglas Home. (Also Nov. 22 and every Friday and Saturday until Jan. 10, except at Thanksgiving and Christmas.

ATHLETICS

Nov. 8—Cross country, vs. Manhattan, 1 p.m.

Nov. 15—Football, vs. Holy Cross, 1:30 p.m.

Nov. 15—Soccer, vs. Army, 10 a.m.

LECTURES

Nov. 10—Sigma XI Lecture by Dr. Paul Delahay, Boyd professor of chemistry, Louisiana State University, on "Electro Chemistry and Kinetics," 8 p.m., Mineral Sciences Auditorium.

Nov. 18—Graduate School Lecture by Allison Davis, University of Chicago, 8 p.m., Room 121, Sparks.

Senate Minutes

Annual Report

Committee on Military Instruction

The committee studied the report "Academic Military Affairs" submitted to the Senate by the Committee on Educational Policy 7 November, 1957. Recommendations concerning this proposal were made to the Senate by the Committee on Educational Policy 17 April, 1958. A copy is appended to this report.

The committee recommended changes in the Senate rules Sla and b, and these were adopted by the Senate at the April meeting.

In accordance with the request of the President, a careful study was made of the Long Range Planning Committee report and the role which Military Instruction would play in the development until 1970. A survey by the committee was forwarded to the President. Briefly the conclusions were as follows:

1. By 1970 the military science requirements will necessitate twice present physical facilities (less drill area) and four times the drill area.

2. Personnel will increase from 88 officers, enlisted men and civilians in 1955 to 145 in 1970.

3. Classrooms will increase from 19 in 1955 to 45 in 1970.

The administrative work in connection with student deferment from ROTC and other matters is handled by the Dean of Men. Assistance was given him by the committee when he requested advice.

E. R. Queer,
Chairman

IGY Scientists In Special Campus Telecast Sunday

Four leading world scientists, who comprise the Bureau of the Special Committee for the International Geophysical Year, will appear with President Eric A. Walker in a special telecast on Sunday, Nov. 2, at 4 p.m.

The telecast will originate on campus, where the group is meeting, and will be shown over WFBG-TV, Altoona, Channel 10.

Dr. Marcel Nicolet, secretary-general of the Special Committee, who has served as a consultant to the Ionosphere Research Laboratory at Penn State and as visiting professor of engineering research, will be one of the five program participants. Dr. Nicolet is head of the department of radiation of the Royal Meteorological Institute of Belgium and associate professor at Brussels University.

The Committee, which will be in session on the campus Saturday through Monday, also includes:

Prof. Sydney Chapman, retired professor at Oxford University, member of the Royal Society of London, and president of the special committee;

Prof. Vladimir V. Belousov, vice-president of the USSR IGY Committee, director of the Institute of Geophysics in Moscow, and member of the Academy of Sciences of the USSR;

Prof. Jean Coulomb, director of the National Center for Scientific Research in France and of the Institute of Geophysics of Paris University.

Purpose of their meeting on campus is to discuss various items dealing with the continuation of the international co-operation in geophysics and study experiences and results obtained during the IGY.

The program on Sunday will review the accomplishments of the present program and discuss goals of the future. President Walker will be moderator of the program.

Three Faculty Seminars To Be Offered By UCA

The University Christian Association will offer three seminars for faculty members and graduate students this year.

Dr. Luther H. Harshbarger, University chaplain, will conduct a seminar on "Understanding the Bible," each Monday evening, from 8 to 10 p.m. for four consecutive Mondays, beginning Nov. 24.

The Rev. John Duley will conduct a seminar on "Modern Rivals to Christian Faith," also on Monday evenings from 8 to 10 p.m. beginning Nov. 24.

Four pastors of State College churches will conduct the third seminar, titled "The Christian Understanding of Man." The first meeting will be held on Tuesday, Nov. 25 and subsequent meetings on Wednesday, beginning with Dec. 3. The Rev. Theodore Braun, The Rev. William McClain, the Rev. Dale Bringman, and The Rev. John Whitney will conduct this seminar.

Report from the Registrar

WITHDRAWALS (Campus)

- 1 Anspach, Doris Mae, H EC, Sept. 19
- 1 Benko, Stephen T., P M, Oct. 1
- 1 Cantor, Paul H., ENG., Oct. 10
- Sp DeLee, Frances Juanita, METEO, Oct. 8
- 3 Dietrich, Clifford R., AG ED, Oct. 13
- 1 Driskell, Sharon Lee, A L, Oct. 15
- Gr Dunkie, L. Kathryn, B ED, Aug. 11
- 1 Ebersole, Alan James, E E, Oct. 6
- 1 Funk, Andy Myer, HORT, Oct. 3
- 3 Glenn, Cora Beth, H EC, Sept. 19
- 1 Green, Vincent M., COUN, Oct. 1
- 1 Held, Kenneth Charles, B A, Sept. 19
- 1 Hopkins, William Stephen, SPECIAL, Oct. 10
- 5 Hurr, Lawrence Fredrick, PSY, Oct. 10
- 5 Johnson, Philip Hale, AG ED, Oct. 3
- 5 Klinger, David Jack, ARO E, Sept. 15
- Gr McIlvride, Donald, SEC ED, Oct. 1
- Gr Marcus, Robert B., E E, Oct. 13
- 4 Mills, Thomas Carlisle, C E, Oct. 6
- 1 Milroth, John Philip, P V, Oct. 10
- 3 Mintz, Robert H., PHYS, Sept. 25
- 1 Moberly, Arthur W., A H, Oct. 9
- 5 Pritchard, Carole, ARTS, Sept. 19
- 5 Reed, Kenneth Floyd, E E, Oct. 8
- 1 Ripper, John, ENG, Oct. 1
- 1 Robbins, Charles L., A H, Oct. 10
- 1 Sedlachek, Gene Ana, EL ED, Oct. 6
- Gr Selander, Edwin Victor, MATH, Oct. 2
- Gr Selander, Mary V., MATH, Oct. 2
- 1 Waldman, John A., ENG., Oct. 1
- 5 Waxman, Lionel A., A L, Oct. 1
- Sp Wilson, Merle William, SPECIAL, Sept. 30

WITHDRAWALS (University Centers)

Associate Degree Program

- 1 Baker, John E., E T, Oct. 2
- Sp Cavolaski, Anne Marie, SPECIAL, Sept. 15
- 1 Gibb, Joseph Edward, E T, Oct. 7
- 1 Gray, Arthur Charles, DDT, Sept. 30
- 1 Herbst, James Roy, E T, Sept. 30
- 1 Katzen, Harlan F., DDT, Oct. 1
- 1 Kepko, John Robert, E T, Sept. 30
- 3 Leik, Barry Van, DDT, Oct. 1
- 1 Leipfert, Robert Brown, E T, Sept. 30
- 1 Loyer, John R., DDT, Sept. 19
- 1 McAndrew, Patrick William, E T, Oct. 2
- 1 Meeker, George Eaton, DDT, Sept. 26
- 1 Moran, James E., E T, Sept. 26
- 1 Nicholas, Daniel Timothy, DDT, Oct. 3
- 1 Poole, Samuel E., P T, Sept. 15
- 1 Rompilla, Joseph Michael, E T, Sept. 24
- 3 Sneath, Robert G., Jr., DDT, Sept. 26
- 1 Suarez, Paulino A., E T, Oct. 2
- 1 Wright, Gene Truby, E T, Oct. 6

Bachelor Degree Program

- 1 Alexandravich, Stanley, FOR, Sept. 19
- 1 Ashe, William S., FOR, Oct. 3
- 1 Gorski, Joseph Frank, CHEM, Oct. 2
- 1 Graupensperger, Richard Thomas, H A, Oct. 1
- 4 Heaton, Sylvia Lee, MT, Sept. 23
- 3 Kovich, John Thomas, B A, Oct. 3
- 1 McCoy, Dennis Clair, AB CH, Oct. 1
- 1 McMullen, James B., G M, Sept. 30
- 1 Major, James David, G M, Sept. 26
- 1 Pusaver, Ronald B., METEO, Sept. 19
- 1 Riehl, Vera Florence, EL ED, Sept. 24
- 3 Ruscavage, Joseph Vincent, BPP, Oct. 7
- 1 Walker, Wayne Paul, A L, Oct. 3

Band Day Program Has 56 High School Groups

A total of 56 high school bands will participate in the annual Band Day program tomorrow.

The bands will participate in the half-time program at the Penn State-Furman football game with a series of numbers under the baton of James W. Dunlop, director of the Blue Band. They will also parade in the borough, en route to Beaver Field, starting at 11 a.m. The bands rehearse from 10 a.m. to 11 a.m.

The combined bands will total 3,670 players, 588 drum majors, and 254 color guard members.

Dr. Apostel To Speak In Philosophy Series

Dr. Leo J. Apostel, at present visiting assistant professor of philosophy, will talk on "Probability and Truth" in the continuing Distinguished Lecture Series in Philosophy on Tuesday, Nov. 18, at 4 p.m. in Room 203 Willard Building.

The talk will be of primary interest to members of the faculty of the department of philosophy and others interested in the field. Now professor extraordinaire of philosophy at the University of Brussel, Dr. Apostel has also taught at the University of Ghent. He is the author of many articles and books and his present research is in the area of methods of induction.

Graduate Lecture Series Opens With Sweezy Nov. 6

Paul M. Sweezy, co-editor of *The Monthly Review* and economist formerly of Harvard University, will open the fall semester program of Graduate School Lectures on Thursday, Nov. 6, at 8:30 p.m. in Room 121, Sparks Building. The talk will be co-sponsored by the Economics Faculty Seminar.

He will speak on "The Meaning of Marxism Today."

Other speakers in the series are Allison Davis, social psychologist and educator, University of Chicago, who will speak on "Ego Development in Adolescence and Young Adulthood" on Nov. 18, co-sponsored by the Colleges of Education and Home Economics; and William K. Frankena, philosopher of the University of Michigan, who will speak on Dec. 11, on "Education and the Good Life," co-sponsored by the department of philosophy.

Dean Fitch Speaks Sunday In Religious Lecture Series

Dr. Robert E. Fitch, dean and professor of Christian Ethics at Pacific School of Religion, will open the 1958-59 series of Lectures on Religion on Sunday, Nov. 2, at 7:30 p.m. in Room 121, Sparks Building.

A graduate of Yale University and Union Theological Seminary, Dr. Fitch received the master of arts degree from Columbia University, the doctor of philosophy degree from Columbia, and the doctor of divinity degree from Lewis and Clark College.

On the staff at Pacific School of Religion since 1949, Dr. Fitch had previously taught at College of the City of New York, Columbia University, University of Texas, Pacific University, and Occidental College. He was ordained into the ministry of the Congregational Church in 1936 and served as chaplain in the Navy during World War II.

Among the books he has authored are *The Limits of Liberty*, and *The Kingdom Without End*.

Color Telecasts Next Week Feature Farm Program

A special color telecast of the University's "Farm, Home, and Garden Program" will be made on Wednesday, Thursday, and Friday of next week, originating in the Gable Department Store in Altoona at 12:30 p.m.

The program will be received on campus in Room 105 Armsby, set up especially for the faculty.

The program is seen daily on WFBG-TV, Altoona, in black and white, with William H. Folwell, assistant professor of extension information, in charge. The color telecast has been scheduled as a part of an RCA demonstration.

Featured on the three programs will be Dorothy D. O'Donnell, assistant professor of home management extension, on "Color in the Home"; Lynn W. Bracken, instructor in floriculture extension, on "Color in Nature"; and Robert J. Rugaber, instructor in poultry husbandry extension, on "Color in Nature."

Tschan To Give Paper In Current UCA Series

Robert E. Tschan, assistant dean of the Graduate School, will present the third and final paper in the current series on "The Responsible University in an Age of Crisis," on Wednesday, Nov. 5, at 8 p.m. in the Helen Eakin Eisenhower Chapel.

Tschan's paper is titled "The Poverty Of Understanding in Modern Scholarship."

The Series is sponsored by the faculty committee of the University Christian Association.

Discussants for the paper will be Dr. Robert W. Stone, head of the department of bacteriology, and Dr. Luther H. Harshbarger, University chaplain.

Mauthe To Be Given Benjamin Fairless Award

J. L. Mauthe, trustee of the University since 1938, has been named by the American Institute of Mining, Metallurgical, and Petroleum Engineers as the 1958 recipient of the Benjamin Fairless Award.

The award was established in 1954 through a fund provided by the U.S. Steel Corporation to recognize outstanding achievement in iron and steel production and ferrous metallurgy to honor Mr. Fairless "for his intense interest in the technology and development of the iron and steel industry."

Mauthe will accept the award at the AIME's annual meeting in San Francisco in February.

Musser Honored

Dr. H. B. Musser, professor of agronomy, was awarded a certificate for outstanding services to the Central Plains Turfgrass Foundation at the annual conference of the Foundation at Manhattan, Kansas, recently.

Calendar

Friday, Oct. 31

Players production of "The Druid Circle," 8 p.m., Center Stage.

Saturday, Nov. 1

Football, vs. Furman, 1:30 p.m., Beaver Field.

Agronomy Seminar, 10:30 a.m., Room 111, Tyson Building. Prof. Oivind Nissen, Agricultural College of Norway, on "Comparison of Crop Potentialities in Alaska and the Scandinavian Countries."

Players production of "The Druid Circle," 8 p.m., Center Stage.

Sunday, Nov. 2

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Robert E. Fitch, dean, Pacific College of Religion.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Rev. Hal Lieper, in charge.

Lecture by Dr. Robert E. Fitch, dean of Christian Ethics, Pacific School of Religion, on "Darwinism and Christianity," 7:30 p.m., Room 121, Sparks Building, sponsored by the Faculty Committee on Religious Studies, the College of the Liberal Arts.

Artists Series program by Guiomar Novaes, Brazilian pianist, 8 p.m., Schwab Auditorium.

Monday, Nov. 3

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Robert E. Eiche, administrative head, Altoona Campus.

Engineering Mechanics Seminar, 4:15 p.m., Room 203, Engineering "A."

Vesper Service of Worship, 4:15 p.m., Helen Eakin Eisenhower Chapel.

Wednesday, Nov. 5

Paper by Robert E. Tschan, assistant dean, The Graduate School, in the series, "The Responsible University in an Age of Crisis," sponsored by the faculty committee of the University Christian Association, 8 p.m., main lounge, Helen Eakin Eisenhower Chapel.

Graduate Mining Seminar, 4:20 p.m., Room 24, Mineral Industries.

Meeting of Central Pennsylvania Section, American Chemical Society, 8 p.m., Room 119, Osmond Lab. Dr. Peter Yates, assistant professor of chemistry, Harvard University, on "Recent Work in the Field of Heterocyclic Chemistry."

Thursday, Nov. 6

Graduate School Lecture by Paul M. Sweezy, co-editor of *The Monthly Review*, on "The Meaning of Marxism Today," 8:30 p.m., Room 121, Sparks Building.

Hillel Foundation series on "The Nature of Religion," 8 p.m. Dr. Luther H. Harshbarger, University chaplain, on "Luther to Tillich."

University Senate meeting, 4:10 p.m., assembly room, Hetzel Union Building.

Economics Faculty Seminar, 12 noon, dining room "A," Hetzel Union Building. Paul M. Sweezy, co-editor, *The Monthly Review* on "Theory of the Corporation."

Friday, Nov. 7

Players production of "The Druid Circle," 8 p.m., Center Stage.

Bryan Green Lectures On Christian Faith Nov. 10-13

A series of lectures on the Christian faith will be conducted by The Reverend Canon Bryan S. W. Green, canon of Birmingham Cathedral and rector of St. Martin's in the Bull Ring, Birmingham, England, Monday through Thursday, Nov. 10-13, at 7 p.m. in Schwab Auditorium.

Each afternoon at 4:15 p.m. in the Hetzel Union Building ballroom, Canon Green will also lecture on "Love, Friendship, and Marriage." He will also be the Chapel speaker on Sunday, Nov. 16.

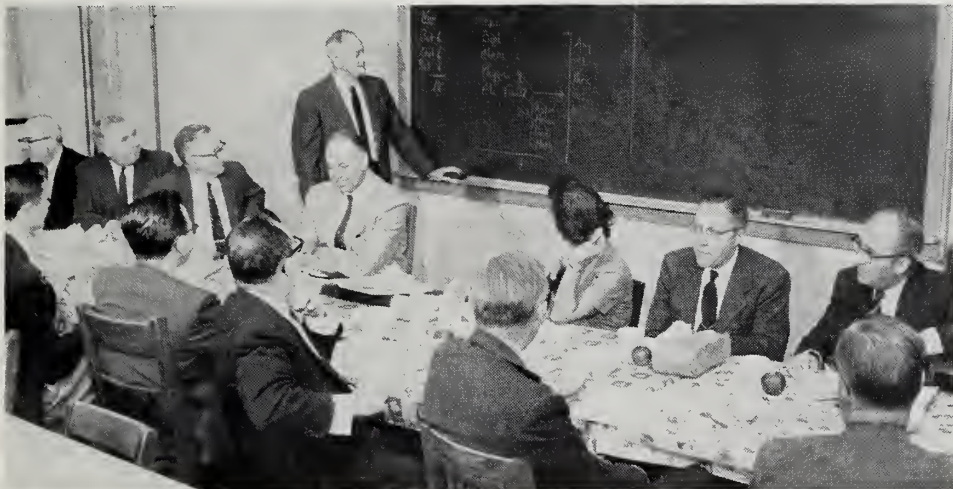
The lectures are sponsored by the All-Campus Committee of the University Christian Association.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.



Lunchtime every other Wednesday finds this group of faculty members meeting to talk over problems of science education. George J. Free, professor of education, is current chairman of the more or less informal committee which packs its lunch to save time and eats while in session.

Science Education Committee Finds Activities Enlarged

A COMMITTEE that grew out of a common interest in the teaching of science and mathematics in secondary schools has found itself involved in various assignments at the University.

The committee is composed of faculty members from five of the undergraduate colleges at the University and includes personnel teaching in the various fields of science as well as education.

Many of the committee members are heads of departments and one is an associate dean. Three deans are frequent visitors and participants in the meetings.

Because it has been difficult to find a convenient meeting time, the committee members have been utilizing the noon hour. Every other Wednesday they arrive with coffee and sandwiches. They eat their lunch during the meeting, which is held in a campus laboratory.

"We have an amazingly fine attendance record," says George J. Free, professor of education and chairman of the Committee.

When the Penn State science teachers asked College of Education personnel about high school courses in science, the College of Education personnel assembled a collection of text books in use. These were circulated among the interested faculty members.

There followed visits to high schools that gave the college science teachers a firsthand look at the science programs. Some of them became so interested in the work that they found themselves later returning to the schools to accept invitations as guest speakers on a particular subject.

Three years ago when the American Association for the Advancement of Science organized its Science Teaching Improvement Programs, the self-ap-

pointed committee was officially designated as the committee to administer the program at Penn State, which was one of four universities chosen as a center for the two-year program.

One of the next projects in which the committee became involved was concerned with certification requirements of science teachers in Pennsylvania.

The group worked with a State Committee on Teacher Certification, headed by Dr. Willis E. Pratt, president of Indiana State Teachers College, which made a report to the State Council of Education last July. The State Department of Public Instruction has organized a committee to write certification requirements and the Penn State group also is studying the work of this committee and making suggestions.

The newest project of the committee is that of advising the administration on the University's part in the National Defense Education Act as related to math and science education.

Members of the committee, in addition to Free, are Dr. Bertil G. Anderson, professor of zoology and head of the department of zoology and entomology; Dr. W. Conard Fernelius, professor of chemistry and head of the departments of chemistry and chemical engineering; Dr. H. Seymour Fowler, associate professor of nature and science education; Dr. Gerald K. Gillan, professor of civil engineering; Dr. A. Witt Hutchison, professor of chemistry and associate head of the department of chemistry; William E. Irwin, former instructor in science education with the Science Teacher Improvement Program and now a graduate student.

Dr. Andrew V. Kozak, associate professor of education; Dr. Harry L. Krall, professor of mathematics; Dr. Charles M. Long, professor and head of the department of education; Dr. E. Willard Miller, professor and head of the department of geography; Dr. C. I. Noll, professor of chemistry and associate dean of the College of Chemistry and Physics; William H. Powers, professor of chemistry and director of arts and science extension; and Dr. John A. Sauer, professor and head of the department of physics.

Items of Interest

Dr. Robert Enggass, associate professor of art and architectural history, is author of an article, "An Unpublished Altarpiece by Baciccio" in the October issue of "The Burlington Magazine," Britain's leading scholarly journal of art history . . . **Dr. Joseph H. Britton**, associate professor of child development and family relationships, and **Dr. W. G. Mather**, head of the department of sociology and anthropology, are co-authors of a paper titled "Factors in Criterion Measures of Adjustment of Older Adults," which Dr. Britton is presenting at the annual meeting of the Gerontological Society in Philadelphia this week.

Dr. Elwood F. Olver, director of the department of security, has been named to the College Education Committee of the National Safety Committee and to the Committee on Relations with College Administrators, and will serve also on the executive committee for the higher education section of the School and College Division. . . **Dr. Donald P. Swegan**, assistant professor of physical education, is author of an article, "Basic Basketball Coaching Points," in the October issue of Scholastic Coach.

Dr. Arthur L. Harnett, professor of physical education, presented a paper titled "Present Practices in Secondary School Health Education" at the recent meeting of the American Public Health Association, of which he is a fellow. . . **Dean Ossian MacKenzie**, **David H. McKinley**, **Richard M. Colwell**, and **B. B. Lethbridge, Jr.**, of the College of Business Administration, all participated in the Third Annual Pennsylvania Petroleum Association Conference held recently on campus.

Dr. L. W. Hu, associate professor of engineering mechanics, is co-author, with Johan F. Bratt, of the Norwegian Technical Institute, of a paper titled "Effect of Tensile Plastic Deformation on Yield Condition" has been published in the Journal of Applied Mechanics of the American Society of Mechanical Engineers. . . **Dr. Philip S. Klein**, professor of history, is author of "The Era of Good Feeling in Pennsylvania," and **Dr. Clark C. Spence**, assistant professor of history, of "The Lancaster: An Early Steam Plow," appearing in the October issue of Pennsylvania History.

Dr. R. R. Roy, assistant professor of physics, presented a paper titled "Study of Angular and Energy Distributions of Fission Fragments by Means of a Multi-grid Ionization Chamber" at the Second United Nations International Conference on the Peaceful Uses of Atomic Energy" recently . . . **Arnulf Muan**, associate professor of metallurgy, participated in a panel discussion on "New Applications of the Phase Rule in Extractive Metallurgical Systems" at the recent meeting of the Metallurgical Society of the AIME.

Miss Helen Adolf Named First Liberal Arts Research Scholar

Miss Helen Adolf, professor of German, has been signally honored in being named the first Liberal Arts research scholar.

The title signifies that Miss Adolf, who has been teaching full time, has been released from half of her teaching assignments to conduct research during the current academic year.

Dean Ben Euwema, of the College of the Liberal Arts, in making the announcement, said that it is hoped that this program will be continued and that other faculty members in the College will be so honored in the future.

Miss Adolf, who has been on the staff of the department of German since 1946, is internationally recognized for her studies of the Holy Grail and other areas of medieval literature. For example, after World War II, she was asked by the editor of a German learned journal to prepare a survey of her Grail research during the war years in order to bring German scholars up to date on the results of her studies.

Already the author of 11 papers on the Grail legend, with another paper about to be published, Miss Adolf anticipates still more publications from her current research, and perhaps a book. Her interest in the field was initiated in her school days and was heightened after she obtained her doctorate at the University of Vienna.

The Grail legend, Miss Adolf says, has taken many forms and has been important in the literature of both East and West. Her current research will attempt to connect the Grail psychology with historical events.

To make this connection, Miss Adolf has explored many volumes of medieval literature, in libraries both here and elsewhere.

Although the historical events connected with the Grail revolve principally around the crusades, their literary reflections present themes of timeless import. Miss Adolf hopes that not only history and the history of literature but also anthropology and religion will benefit from her investigations.

A number of other faculty members of the College have been released from a small part of their teaching assignments to conduct research this semester. These include Dr. Harold E. Dickson, Edward J. Nichols, Robert R. Reed, Neil A. McNall, Haskell B. Curry, Carl C. Faith, Aileen L. Hostinsky, Josephine Mitchell, Lowell Schoenfeld, Henry W. Johnstone, Luke T. Lee, M. Nelson McGeary, Jessie R. Bernard, and Louis Dupree.

Near East Expedition Film In HUB Thursday

An amateur color film showing the work of the recent archaeological expedition in the Near East, of which Dr. Frederick R. Matson, professor of archaeology was a member, will be shown on Thursday, Nov. 13, at 7:30 p.m. in the HUB auditorium.

Senate Minutes

Annual Report SENATE COMMITTEE ON ADMISSIONS

November 7 — Approved changes in entrance requirements for The Arts and for the two-year curriculum in Metallurgical Technology.

November 21 — Studied the 2,910 applicants who were offered admission but did not accept or who accepted admission and cancelled after payment of deposit.

December 5 — Examined a bibliography dealing with admission problems at the college/university level, 1945 to date, prepared by Dr. D. G. Thevaos and Miss Sylvia Mellerud, a graduate student in psychology.

December 19 — Studied the use of high school rank and test scores (Moore-Castore or SAT) in evaluating qualifications for admission and predicting success in college work.

January 9 — Submitted a report to Dr. M. E. John concerning the functions of the Senate Committee on Admissions.

February 20 — Approved entrance requirements for a new two-year associate degree program in Chemical Technology.

March 13 — Heard a report from Dr. W. H. Gray as to the policy for admission of international students; and studied a tabulation by Dr. B. G. Anderson showing the number and average dollar of scholarships (together with the per cent of student receiving scholarships) at certain Pennsylvania colleges, Ivy League colleges, and state universities, using figures extracted from a 1957 bulletin (No. 18) of the U.S. Department of Health, Education and Welfare.

March 27 — Approved changes in the entrance requirements for six curriculums in Agriculture.

April 17 — Discussed the jurisdiction of this committee as it relates to the Senate Committee on Educational Policy (the case in point being the recommendations of the latter committee with respect to freshmen entering English Composition 1 beginning in 1960).

1957-58 SUMMARY

During the year the committee proceeded along these lines:

1. Detailed examination of the Moore-Castore admissions test now used to judge the qualifications of Pennsylvania high school graduates who place in the 3rd, 4th or last 5th of their high school classes.
2. A similar examination of the Scholastic Aptitude Test (SAT) now used to judge the qualifications of all out-of-state residents who apply to the University. This test originated with the Ivy League colleges and is prepared by a private organization at Princeton, New Jersey, namely, Educational Testing Service. A growing number of in-state residents are submitting scores on such examinations since a single examination covers applications to two or more colleges or universities. We then equate the Educational Testing Service (ETS) scores to our own Moore-Castore test.
3. An analysis of research reports on admission and prediction problems, as prepared by staff members of Dr. Bernreuter's Division of Counseling, the Student Advisory Service, and by members of Dean Williams' Admissions Office.

Among the more important issues before the Senate Committee are whether to recommend:

- A. Testing of in-state applicants who are not now being tested — (namely, students graduating in the 1st or 2nd-fifth of their high school classes), and
- B. Substitution of the nationally-used ETS tests for the University's own Moore-Castore test.

The Senate Committee members seek to achieve a gradual improvement of scholastic ability through admissions tests and prediction formulas based on high school rank and other criteria. At the same time, the Committee members are debating the special responsibilities which rest upon the University by reason of its land grant tradition, and the fact that individuals from underprivileged socio-economic classes look to the University for training opportunities.

David H. McKinley
Chairman

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

- Nov. 16—The Rev. Canon Bryan S. W. Green, canon of Birmingham Cathedral and Rector of St. Martin's in the Bull Ring, Birmingham, England.
- Nov. 23—Dr. Elfan Rees, permanent representative in Europe of the Commission of the Churches on International Affairs and advisor on Refugee Affairs to the World Council of Churches, Great Britain.
- Dec. 7—Dr. Luther H. Harshbarger, University chaplain.
- Dec. 14—Chapel Choir Christmas program

CONCERTS

- Nov. 16—Organ recital by George Ceiga, 4 p.m., Schwab Auditorium.
- Nov. 23—Jazz Club concert by Stan Kenton orchestra, 8 p.m., Recreation Building.
- Dec. 13—Chapel Choir Christmas program
- Dec. 10—Artists Series program by Elizabeth Schwartzkopf.

DRAMATICS

- Nov. 14—Artists Series program by The Canadian Players, in "As You Like It." (Also matinee, Nov. 15.)
- Nov. 15—Artists Series program by The Canadian Players, in "Devil's Disciple."
- Nov. 21—Center Stage production of "The Reluctant Debutante" by William Douglas Home. (Also Nov. 22 and every Friday and Saturday until Jan. 10, except at Thanksgiving and Christmas.

ATHLETICS

- Nov. 8—Cross country, vs. Manhattan, 1 p.m.
- Nov. 15—Football, vs. Holy Cross, 1:30 p.m.
- Nov. 15—Soccer, vs. Army, 10 a.m.
- Dec. 13—Wrestling, vs. Colgate.

LECTURES

- Nov. 10—Sigma XI Lecture by Dr. Paul Delahay, Boyd professor of chemistry, Louisiana State University, on "Electro Chemistry and Kinetics," 8 p.m., Mineral Sciences Auditorium.
- Nov. 18—Graduate School Lecture by Allison Davis, University of Chicago, 8 p.m., Room 121, Sparks.
- Dec. 11—Distinguished Lecture Series in Philosophy. Dr. William Frankena, chairman, department of philosophy, University of Michigan.

American Society For Metals Lists Meetings Next Week

The Penn State Chapter of the American Society for Metals will hold its regular meeting on Tuesday, Nov. 11 and also be host to the Biennial Pennsylvania Interchapter meeting of the Society on Friday and Saturday, Nov. 14 and 15.

H. H. Chiswik, associate director of the metallurgy division, Argonne National Laboratory, will address the regular meeting of the chapter at 7:30 p.m. in the Mineral Industries Auditorium on Nov. 11. He will speak on "Metallurgical Problems of Reactors."

Chapters from the Lehigh Valley, Northeast and Northwest Pennsylvania, Philadelphia, Pittsburgh, and York will take part in the Interchapter meeting of ASM on Friday and Saturday. The meetings will take place in the auditorium also.

Development Committee Functions Are Defined

(The following statement on the functions of the University Development Committee was sent to deans and other administrative officers recently by President Eric A. Walker.)

On January 25, 1958 the Trustees of the University approved in principle a long-range plan designed to anticipate the adjustments that will be needed to meet this University's growing and changing educational responsibilities during the next twelve years. The implementation of this plan will be the specific responsibility of the entire faculty and staff.

The innumerable variables affecting the future make it necessary for the University (a) constantly to adapt the initial long-range plan to changing but now unforseeable conditions, (b) to coordinate the many specific adjustments implicit in the plan, and (c) to foster orderly development of the interrelated aspects of University growth.

To help the President of the University perform his role in these essential functions, I have renamed the Long-Range Development Committee the *University Development Committee*, with the understanding that it will work with me on a continuing basis in a purely advisory capacity. To the end that it might be representative of the major operational areas of the University, I have appointed to the Committee, on an *ex officio* basis, the following persons: The Vice President for Academic Affairs (L. E. Dennis); The Vice President for Business Administration (O. R. MacKenzie); The Vice President for Development (C. S. Wyand); The Vice President for Finance (McKay Donkin); The Vice President for Research (M. A. Farrell); The Director of General Extension (E. L. Keller); Chairman, Senate Committee on Educational Policy (R. E. Larson); Chairman, Senate Committee on Extension (A. Witt Hutchison); Chairman, Senate Committee on Research (R. W. Stone); A representative of the Council of Academic Deans (H. K. Schilling).

Dr. C. R. Carpenter and Mr. Walter H. Wiegand meet regularly with the Committee as consultants. I have appointed Mr. Wyand chairman of the Committee; Dr. Hutchison is its secretary. The Committee meets weekly or oftener to consider a formal agenda scheduled in advance.

The Committee has been directed to assume the initiative in keeping the long-range plan up to date as to content and timing. It will also consider the long-range implications of specific matters of University development proposed to me by the several officers, committees and agencies of the institution and, in turn, referred by me to the Committee.

The University Development Committee is neither a research unit, a formulator of specific proposals for change, nor an administrative agency. It will not assume any of the functions of any existing office, committee or agency. It will simply advise me on specific ways to keep the long-range plan up to date. It will also, at my request, review specific proposals for adjustment of University policies, programs and procedures by delineating the arguments for and against any plan and by assessing the benefits and inferred commitments, relating them to our over-all plan for growth and development.

It is expected that each member of the Committee will reflect the points of view of the University area he represents. However, specific proposals will be referred to the Committee only through my office.

I was reluctant to add an additional agency to the University organization, but the need for a working group to marshal the arguments on specific proposals made the need for such a committee imperative. The group exists solely to expedite our activities and to allow me to make prompt and properly considered judgments.

Dean Schilling To Lecture On Continental Classroom

Dr. Harold K. Schilling, dean of the Graduate School, has been selected to appear as guest lecturer on Continental Classroom, the nationally televised course in atomic age physics.

He will appear on the program of Dec. 10, from 6:30 to 7:00 a.m. and his lecture will be titled "Vibrations and Waves."

Report from the Registrar

WITHDRAWALS (Campus)

- 4 Anderson, Norman Richard, ARO E, Sept. 23
- 5 Banks, Dennis H., B A, Oct. 3
- 1 Barnett, Barry F., COUN, Oct. 1
- 3 Bennett, Judith Mildred, EL ED, Sept. 19
- 1 Bieler, Charles Louis, HORT, Oct. 2
- Gr Boyd, Robert H., CHEM, Sept. 30
- 3 Burkhardt, Raymond Gabriel, C E, Sept. 30
- 7 Caye, Edward Gilson, COUN, Sept. 15
- Gr Cohen, Joan Lois, HIST, Sept. 26
- 7 Cohen, Robert George, B A, Oct. 3
- Gr Cooper, Earl C., PHYS, Oct. 1
- 1 Cornman, James Robert, E E, Sept. 30
- 5 Curtin, Theodore Ganter, EE, Sept. 26
- Gr Fudall, Lois Elaine, ED, Oct. 1
- 1 Glessner, James Stanley, ENG, Oct. 4
- 6 Gresco, Alfred Joseph, M E, Sept. 30
- 3 Haugh, Robert R., M E, Sept. 29
- Gr Heinze, Louis John, HIST, Sept. 19
- 1 Hinkel, Joan Lee, JOURN, Sept. 25
- 4 Hotchkiss, William G., B ED, Sept. 26
- 7 Kahn, Harold David, SEC ED, Oct. 1
- 1 Krawiec, Joseph Francis, ENG, Oct. 1
- 3 Kunkle, Francis Charles, CER T, Oct. 6
- 1 Kyle, John Frederick, P V, Oct. 1
- 1 Lawrence, Lynda C., H EC, Sept. 27
- 3 Levenson, Sylvia Ruth, PH ED, Sept. 20
- 1 McCarty, John F., B A, Sept. 15
- 1 Miller, Larry James, ARCH, Sept. 27
- 5 Myers, Shirley Ann, EL ED, Sept. 16
- 4 Ostwind, Dorothy Belle, A ED, Sept. 30
- 2 Purvis, Clarence A., B A, Sept. 27
- 1 Ringer, Dennis Carl, METEO, Sept. 26
- 1 Shomper, Dorothy Jeanne, SEC ED, Sept. 30
- 4 Swalm, Reuben Phillip, COUN, Sept. 26
- 1 Tumas, Kathleen, MED T, Sept. 30
- Sp Weyandt, Paul H., CH E, Sept. 15
- 1 Williams, David O., ENG, Sept. 10

WITHDRAWALS (University Centers)

Associate Degree Program

- 1 Carson, Marvin, DDT, Sept. 26
- 1 Cure, Ralph Edwin, ET, Oct. 2
- 1 Henry, John Joseph, Jr., E T, Sept. 25
- 3 Hocking, Harold Thomas, DDT, Oct. 1
- 1 Jaffe, Vivian, 2 SEC, Sept. 20
- 3 Jarmolowicz, Francis R., DDT, Sept. 25
- 1 Lederer, Deborah G., 2 SEC, Sept. 18
- 1 Miller, George R., ET, Sept. 26
- 1 Retaichak, John Joseph, Jr., ET, Sept. 26
- 3 Shiffer, William Ray, DDT, Sept. 29
- 1 Siegel, Sheila, 2 Sec, Sept. 20
- Sp Willard, William H., SPECIAL, Sept. 26

Bachelor Degree Program

- 1 Duffy, Berneil Rae, A L, Sept. 24
- 3 Haug, Henry E., M E, Sept. 17
- 3 Karnell, Diane C., A L, Sept. 15
- 1 McCrystal, Thomas Raymond, ENG, Sept. 26
- 1 Medici, Paul Anthony, CHEM, Sept. 18
- 1 Petyk, Mstyslaw, ENG, Sept. 20
- 3 Schultz, Eleanor L., A L, Sept. 26
- 7 Strunk, Suzanne McAleery, A L, Sept. 19
- 1 Takach, Joseph Jerome, CH E, Sept. 19
- 3 Weiss, Bernard M., CH E, Sept. 20
- 1 Yankus, James, B A, Sept. 15

The following reasons were given for withdrawals: Personal 28, Financial 10, Illness 8, Transfer 7, Other 5, Military Service 1, None 1.

Dr. Ruth Mack Addresses Econ Faculty Seminar

Dr. Ruth Mack, senior management consultant in economic and fiscal problems for New York City, will speak on "A Neglected Factor in Inflation," at the weekly Economics Faculty Seminar, Tuesday, Nov. 11, at 12 noon in dining room "A", of the Hetzel Union Building.

An expert on business conditions, Dr. Mack is the author of many economic studies. She is currently on leave from the National Bureau of Economic Research.

Calendar

Friday, Nov. 7

Players production of "The Druid Circle," 8 p.m., Center Stage.

Saturday, Nov. 8

Cross country, versus Manhattan, 1:30 p.m.
Players production of "The Druid Circle," 8 p.m., Center Stage.
Ag Hill student-faculty party, 5:30 p.m., Recreation Building.

Sunday, Nov. 9

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Reverend Donald Cutler, Episcopal chaplain to students.
Roman Catholic Mass, 9 a.m., Schwab Auditorium.
Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Roy C. Buck, associate professor of rural sociology.
Song recital by Raymond H. Brown, assistant professor of music, accompanied by Barry S. Brinsmaid, 4 p.m., Schwab Auditorium.

Monday, Nov. 10

Sigma Xi Lecture, 8 p.m., Mineral Industries Auditorium, Dr. Paul Delahay, on "Electro Chemistry and Kinetics."
Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Cyril F. Hager, director of the Center for Continuing Liberal Education, on "Adult Education."
Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A".
Chemistry Colloquium, 11 a.m., Room 121, Sparks. Dr. Paul Delahay, on "Structure of the Double Layer and Electrode Processes."
Simmons Series lecture by Dr. Elizabeth Sewell on "The Theatre of the Mind: Drama and Dreams," 8 p.m., Room 10, Sparks.
Vesper Service of Worship, 4:15 p.m., Helen Eakin Eisenhower Chapel.
Lectures by Canon Bryan S. W. Green, 4:15 p.m., Hetzel Union Building ballroom on "Love, Friendship, and Marriage"; also at 7 p.m. in Schwab Auditorium on "The Christian Faith, sponsored by the UCA All-campus committee. Also each day through Thursday, Nov. 13.

Tuesday, Nov. 11

Science Institute for Teachers colloquium, 4:15 p.m., Room 112, Buckhout Laboratory. Dr. F. B. Dutton, Michigan State University, on "The Use of Demonstrations for Teaching."
Physics Colloquium, 4:15 p.m., Room 117, Osmond Laboratory. Dr. W. P. Alford, assistant professor of physics, University of Rochester, on "Elastic Scattering and Polarization of Low Energy Protons."
Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. Dr. Ruth Mack, senior management consultant in economic and fiscal problems, on "A Neglected Factor in Inflation."
Meeting of Penn State chapter, American Society for Metals, Mineral Industries Auditorium, 7:30 p.m. H. H. Chiswick, associate director, metallurgy division, Argonne National Laboratory, on "Metallurgical Problems of Reactors."
WDFM and WMAJ broadcast of music on "Face the Music" program, with G. William Henninger, professor of music, at 8 p.m.

Ice Rink To Be Covered

Proposed alterations to the University's ice rink have been approved by the Board of Trustees and detailed plans will soon be prepared by an architectural firm.

The alterations are designed to expand the uses of the rink, as well as prolong the skating season. They include a roof over the entire rink and a concrete floor. At present, the refrigeration pipes are covered by a layer of sand, which is then flooded.

It is anticipated that when the rink is not being used for skating it will be useful for physical education classes and possibly varsity athletic practices as well as providing space for indoor recreation activities and band concerts, movies, and other events normally scheduled for outdoors and sometimes cancelled because of weather.

Wednesday, Nov. 12

Forestry convocation, 11 a.m., Room 121, Sparks. D. P. Duvall, supervisor of instructional materials production on "Outdoor Living."
Liberal Arts Faculty Seminar, 3 p.m., Chapel Lounge. Dr. Herbert Heaton, distinguished visiting professor of history, on "Economic Historian at Work."
Slavic Club meeting, 7 p.m. and 9 p.m., Room 111, Boucke Building. Showing of Russian language film, "Volga, Volga," with English sub-titles.
American Federation of Teachers meeting, 7:30 p.m., Room 124, Sparks. Marlin J. Dean, regional representative, The Pennsylvania Credit Union League, on the establishment of a credit union.

Thursday, Nov. 13

College of Home Economics faculty meeting, 4:15 p.m., Room 14, Home Economics Building.
Hillel Foundation lecture series on "The Nature of Religion," 8 p.m. Dr. Henry A. Finch, professor of philosophy, on "From Maimonides to Buber."
Philosophy Colloquium, 2 p.m., Room 202, Willard Building. Dr. Rigoberto Juarez-Paz, instructor in philosophy, on "Ortega y Castet's Critique of Vital Reason."
Liberal Arts faculty meeting, 4:15 p.m., Room 121, Sparks.
Color film showing of recent Near East archaeological expedition by Dr. Frederick R. Matson, professor of archaeology, 7:30 p.m., HUB auditorium.

Friday, Nov. 14

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. A. Taylor, Westinghouse Laboratories, on "Some X-Ray Studies of Complex Alloy Systems."
Meeting of faculty of College of Agriculture, 4:15 p.m., Room 109 Armsby Building.
Artists Series program by The Canadian Players, 8:30 p.m., Schwab Auditorium.

Froke Named To Staff Of Journalism School

Marlowe D. Froke, instructor in the radio-television department of the University of Illinois, will join the faculty of the School of Journalism in January, as assistant professor of journalism.

He will be in charge of radio and television news course.

A graduate of South Dakota State College, with a master of science degree from Medill School of Journalism, Northwestern University, Froke has had professional experience with Chicago radio and television stations and a radio station at Watertown, S.D. He has served as news supervisor for the University of Illinois television station.

Dr. Sewell Opens Simmons Series Of Lectures Monday

The first lecture in the 13th annual Simmons Series, sponsored by the department of German, will be given by Dr. Elizabeth Sewell, who will speak on "The Theatre of the Mind: Drama and Dreams," on Monday, Nov. 10, at 8 p.m. in Room 10, Sparks Building.

Dr. Sewell was granted her degrees by Cambridge University's Newnham College in modern languages, French, and German. She has been Howard Research fellow and Merzhon Visiting Lecturer at Ohio State University; visiting lecturer in English, Vassar College; lecturer in the Christian Gauss Seminar in Criticism, Princeton University; and Senior Simon Research fellow, Manchester University, England. She is currently professor of English, Fordham University.

Her publications include poems and short stories, two novels, *The Dividing of Time* and *The Singular Hope*.

Dr. Nourse Distinguished Visiting Econ Professor

Dr. Edwin G. Nourse, vice chairman of the Joint Council on Economic Education, has been named distinguished visiting professor of economics, effective Feb. 2, 1959.



From 1946 to 1949, Dr. Nourse was chairman of the Council of Economic Advisers in the executive office of the President. He is past president of the American Economic Association and of the American Farm Economic Association.

He taught for 15 years in the Wharton School at the University of Pennsylvania, and at state universities in South Dakota, Arkansas, and Iowa. For some years he was vice president of the Brookings Institution in Washington, D.C.

Among Dr. Nourse's books are *America's Capacity to Produce*, *Price Making in a Democracy*, and *Economics in Public Service*.

Dr. Delahay To Give Sigma Xi Lecture

Dr. Paul Delahay, Boyd professor of chemistry at Louisiana State University, will present the annual Sigma Xi lecture on Monday, Nov. 10 at 8 p.m. in the Mineral Sciences Auditorium.

He will speak on "Electrochemistry and Kinetics."

Born in The Netherlands in 1921, he received his education chiefly in Belgium and taught at the University of Brussels. In 1946-47, he visited the United States and did research on corrosion in 1948-49 at the University of Oregon, after which he joined the staff at Louisiana State.

Dr. Delahay has done extensive research on electrode kinetics, diffusion, adsorption, electroanalytical chemistry and instrumentation. He received the 1951 Turner Prize of the Electrochemical Society, and the 1955 Award in Pure Chemistry of the American Chemical Society. He was a Guggenheim Fellow at Cambridge University in 1955.

Ticket Sale Announced For Canadian Players Programs

Plans for the distribution of tickets for the Artists Series program by The Canadian Players have been announced.

For the performances of Shakespeare's "As You Like It" on Friday, Nov. 14 and Saturday afternoon, Nov. 15, tickets for the general public will go on sale at the Hetzel Union Building at 9 a.m. Tuesday, Nov. 11.

For the performance of "Devil's Disciple" on Saturday, Nov. 15 at 8 p.m., the tickets will go on sale on Thursday, Nov. 13 at 9 a.m. at the HUB desk.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Word Meanings

Linguistics Aid To Sociologists — Coutu

Dr. Walter Coutu, professor of sociology, sees in the science of linguistics answers to many behavior problems of humanity.



WHAT does the word *love* mean to you? Or the word *integration*?

If you're an Arab, father love would approximate the same idea as it does for an American, but mother love would mean something entirely different.

If you are a Southerner, perhaps the word *integration* means something entirely different than it does to a northerner.

Meanings of words and their effects on people are becoming of increasing importance to sociologists who see in the science of linguistics, or the study of words and language, some of the answers to our behavior.

Dr. Walter Coutu, professor of sociology, is one of four faculty members currently teaching a graduate course in linguistics, L.A. 501 and 502. He says:

"All animals invest their behavior fields with meaning. The meaning an animal gives to a situation controls his behavior.

"A basic problem then, is to investigate the nature of 'meaning.' This leads to a simple working theory of signs which precipitate different levels of reality from the signalic worlds of the

sub-human to the symbolic worlds of the human.

"The most elaborate system of symbolic meaning are languages which not only mediate meaning, thus creating communication, but also create meaning, thus determining the structure of thought."

In the Arab world, Dr. Coutu explains, where a woman is considered chattel, the child's concept of mother-love, especially as he gets older, is structured by the language patterns used to express the mother-son relationship. Such early instruction in the meaning of the word *love* helps to explain the Arab attitude regarding polygamy, which Americans might find entirely inconceivable. The structure of thought therefore has been determined in later years by the mind picture conjured by the language.

Words, or the lack of them, can have extremely important effects on a society. The Chinese, for example, had no word in their language for *uranium*. Translators took the "U" from their word for grapefruit (U-tree) and the first part of their symbol for "bell,"

literally "metal boy," but came up with "U-metal." They might make ideograms, Dr. Coutu says, but in everyday communication, the atomic age is of unknown quantity.

"In our own society, at present," Dr. Coutu points out, "the words *integration* and *segregation* have taken on new emphasis. To many people, the word *integration* has especially distasteful connotations. Sociologists agree generally that one basic reason for this unhappy meaning is the way the word was used by adults in speaking to youngsters.

"If children were not exposed to the concepts of the difference of people because of the color of their skins, they would have less reason to fear the effects of integration."

The animal kingdom, Dr. Coutu points out, depends only on signals in its existence, and the meaning attached to a certain signal is more or less universal. The human world leans heavily on the symbolic world, but unfortunately the symbols are not universal.

"There are many thoughts and ideas," he argues, "that can be expressed in one

(Continued on page four)

Admissions Policies, Practices Explained

THE Admissions Office at Penn State received applications for admission from 11,865 high school students for the current semester, beginning in October 1957. Of these 4,365 are now enrolled in a baccalaureate program in the University system.

Why did 7,500 students not come to Penn State after indicating at least some early interest? What quality student finally arrived here and what quality failed to show up? What are future admissions policies and practices likely to be?

Penn States admission practices are no different in many respects from those of most other colleges and universities. Practically all colleges find it necessary to refuse certain applicants to maintain standards and/or to keep from being overcrowded. On the other hand, practically all colleges would like to accept only the best qualified students, if they had a free choice.

In one respect or another, says Dr. R. G. Bernreuter, dean of admissions and special assistant to the President, every college has a selective admissions system, Penn State included. There is no hard and fast rule for admission based on only one criterion, such as high school grades, examination scores, family status, etc.

As a very broad generalization, any Pennsylvanian, properly qualified, in the upper two-fifths of his high school graduation class who got his application in early enough this past year was accepted for admission to Penn State. This generalization had exceptions, however. In some cases the applicant chose a field for which he did not have sufficient preparation; for example, in engineering, did not have enough or the right kinds of math courses. In other cases, the applicant failed to deposit the required \$25 deposit fee or the advanced housing deposit early enough. Some chose a field in which the quota was filled.

Beyond that generalization, students from the third, fourth, and even fifth-fifth of their graduation class were admitted, after proper examination, or were refused, not alone because of their high school record but other factors as well.

"We cannot," says Dr. Bernreuter, "base our admissions exclusively as judged by high school ranking or scholastic attainment, for good reasons.

"First, we realize that not all high schools are alike; some turn out many good students, others graduate only a few of college caliber. The rank of the student does not necessarily indicate his real ability.

"Second, it is a mistake for any college to rely exclusively on grade point average, percentage score, or any similar criterion for the reason that that college might very well develop one-

sidedly, and lack balance. This is not to say that the college should accept fifth-fifth students to counterbalance first-fifthers; it simply means that the exclusive use of high school ranking as criterion for admission does not take into account other, equally important factors.

"Third, ranking systems are not uniform and test scores must be realistic in what they show. For example, a student who attains a high ranking in subjects of relatively untechnical nature, but who desires to enter a technical field, is not as good a prospect as the student who has only average overall grades but does well in technical fields. On the College Entrance examinations, he may attain a score of 600 in verbal and 300 in mathematics for a combined score of 900 and not be as desirable an applicant as the student who attained a 450 verbal and 400 math score."

In each application for admission to Penn State, the student is asked a number of questions of personal nature. What were your non-academic activities? Are you the son or daughter of an alumnus, or a brother or sister? Do you have any health problems?

"No one single answer," says Dr. Bernreuter, "is in itself the basis for admission. On the other hand, these personal questions are significant. If the student's average was good, in subjects pertinent to college work, and if he was an active student in high school, he could be a very desirable applicant for Penn State.

"As the son or daughter of an alumnus, he or she may have some edge over another student, especially if he is from out-of-State.

"The matter of health may be significant also, although there are few cases when this has any considerable bearing."

Of The Applicants

Of the 11,865 students from whom applications were received, the following table indicates what happened to them:

4,365—enrolled
3,228—offered admission but did not accept
2,238—refused admission, did not qualify
809—refused admission, did qualify.
277—withdraw applications
948—failed to answer further correspondence

The problem of "ghost" or multiple applications exists in every college, and undoubtedly some in each of the above categories also submitted applications elsewhere. The most startling statistic is that of the 800 students who accepted admission and cancelled before enrolling, 442 were from the first-fifth of their class and 266 from the second-fifth. One reason for these failures to enroll was lack of scholarship aid which may have been provided elsewhere.

Some of the 809 who were refused admission, even though qualified in other respects, sought enrollment in curricula already filled when their applications were received. Others failed to accept early enough for any curriculum and found residence halls filled.

Of the Admissions

A number of the more than 2,000 applicants who were not considered qualified for the baccalaureate program were referred by the Division of Counseling to the two-year program at the centers or to junior colleges. Some of these are therefore Penn State students.

But what of the 4,365 who were admitted?

About 75 per cent of the total class, on main campus, at centers, or at Mont Alto, were qualified for admission by reason of their high school standing; that is, they were Pennsylvanians who ranked in the upper two-fifths of their high school graduating class. On main campus the percentage is nearly 80, at centers about 64.

Twenty-five per cent, or about 1,100 were admitted after having submitted scores on College Entrance Board examinations or after having taken our own entrance examination. Past experience has indicated that there is little difference in the two exams as to difficulty, but the College Board examination is used by many other institutions as a requirement for admission, so many high school seniors take it on the assumption that they will seek admission elsewhere as well as at Penn State.

Penn State's examination is given free at all campuses and centers, as well as on main campus for the convenience of the students.

A total of 1,989 students submitted College Board scores, including 1,415 students who were in the upper two-fifths of their class. The group may or may not be representative of the entire freshman class, but some statistics revealed in the scores are interesting. It should be remembered that all out-of-State students must submit College Board scores. Consistent with established policy, about 10 per cent of the freshman class were from other states.

The mean score on the verbal portion of the SAT tests submitted by the 1,989 students was 480. On the math portion, the mean score was 523. Both figures are almost identical with last year's results. On main campus alone, the means were 485 and 527, respectively.

Of special significance in the test results, is the fact that less than six per cent of those submitting test results scored below 350 on the verbal portion and less than three per cent scored below 350 in the math portion. On the other end of the scale, 41 per cent scored above 500 on the verbal portion and 61 per cent above 500 on the math portion.

(This is the first of two installments on the University's admission policies and practices. The second installment will appear in the Nov. 21 issue of the Faculty Bulletin.)

Items of Interest

Dr. O. F. Tuttle, chairman of the division of earth sciences, is co-author, along with the late **Dr. N. L. Bowen**, formerly of the geo-physical laboratory, of Memoir No. 74 of the Geological Society of America, citing important contributions made to the knowledge of the origin of granitic rocks, pegmatites, and ore deposits . . . **Dr. W. Conard Fernelius**, head of the departments of chemistry and chemical engineering, spoke recently on the subject of "Coordination Polymers" before the Celanese Corporation of America, the Grace Development Division of Grace Chemical Co., and the department of chemistry at the University of Maryland.

Dr. Robert A. Sigafos, acting executive secretary of the University's Institute of Local Government, addressed the 1500 delegates at the annual convention of the Pennsylvania State School Directors Association in Harrisburg recently on the subject of local taxation and better financial planning in the school districts . . . **Benjamin W. Niebel**, head of the department of industrial engineering, is the author of a series of articles titled "Incentive Wage Payment," which have been published in "Productividad," official publication of the Mexican Productivity Center.

Dr. Miriam E. Lowenberg, head of the department of foods and nutrition, is the key speaker today at the Nutrition Conference in Washington, D. C., which has participants drawn from medical and dental societies, public health agencies, youth councils, educators and research workers. She is speaking on "Food as Children See It." . . . **Delpha E. Wiesendanger**, head of the department of home management, housing, and home art, spoke last week on "New Buildings for New Programs" at a meeting of North East Teachers of Textiles and Clothing in Philadelphia.

Dr. George F. Wislicenus, director of the Garfield Thomas Water Tunnel, spoke on "Some Principles of Axial-Flow Compressor and Fan Design" at a symposium held by the General Electric Company recently in Schenectady, N. Y. . . .

Reserve Films Now

Faculty members who plan to use films in the Spring Semester of 1959 are urged to reserve them with the Audio-Visual Aids Library at their earliest convenience in order to avoid possible disappointment, as orders for the next semester from other institutions have begun to arrive.

Where definite dates of use cannot be determined at this time, the Library suggests that faculty members schedule films for blocks of 3 or 4 days which encompass the anticipated use date. This block can be reduced to the single date later when class schedules and meeting places are announced.

Kentucky History Head To Be Visiting Prof

Dr. Thomas D. Clark, head of the department of history at the University of Kentucky, will serve during the spring semester as distinguished visiting professor of history at Penn State.

A native of Mississippi, Dr. Clark received his bachelor of arts from the University of Mississippi, master of arts from the University of Kentucky, and doctor of philosophy from Duke University. He was awarded the doctor of letters degree by Lincoln Memorial University.

He began his teaching career at Western State Teachers College in Memphis in 1930 and the following year was named to the faculty of the University of Kentucky. He was named professor of history there in 1942 and three years later was appointed to his present position.

Dr. Clark has served as visiting professor of history at the University of Rochester, Duke University, University of North Carolina, the University of Tennessee, and the University of Chicago, Claremont Graduate School, and the University of Vienna.

A member of the American Historical Association, he is chairman of the executive committee of the Mississippi Valley Historical Association.

Players Schedule Productions At Center Stage, Schwab Soon

Two plays by the Penn State Players will be presented in the near future.

At Center Stage, Robert Reifsnieder, associate professor of theatre arts, is director of the play "The Reluctant Debutante," by William Douglas Home, which will run each Friday and Saturday at 8 p.m. from Nov. 21 to Jan. 10, with the exception of the Thanksgiving and Christmas holidays. The story relates the attempts of a mother to do the matchmaking for her debutante daughter.

On Dec. 4, 5, and 6 at 8 p.m. in Schwab Auditorium, Players presents "A Clearing in the Woods," by Arthur Laurents. Frank Neusbaum, professor of theatre arts, directs the play, a fantasy describing the torments of a young woman.

Dr. Hill Named To Genetics Staff

Dr. Helen D. Hill, geneticist with the U. S. Regional Pasture Research Laboratory, has been appointed to the faculty with the rank of associate professor of genetics in the department of botany and plant pathology. She will continue on the Laboratory staff.

A graduate of the University of Chicago, with master of science and doctor of philosophy degrees from Penn State, Dr. Hill has served on the Laboratory staff since 1937, after having held positions at Penn State in the departments of German, English, and botany and plant pathology.

Statistics Workshop To Begin Tuesday, Nov. 18

A workshop on statistical computation, sponsored jointly by Computation Services and the Agricultural Experiment Station will be held each Tuesday afternoon, beginning on Nov. 18 at 4:15 p.m., in Room 105, Forestry Building.

The program will go on indefinitely, except that no meeting will be held on Nov. 25 because of the approaching Thanksgiving recess.

Dr. James Bartoo, associate professor of mathematics, will lead the initial discussions on "Multiple Regression Analysis and Analysis of Variance."

Case study approach will be used and examples drawn from agricultural research. There will be ample opportunity for questions. Uses of PENNSTAC and the computation equipment in Boucke Building will be considered. Emphasis on standard programs now available will be given. Although intended primarily for those engaged in agricultural research, faculty members and graduate students of other areas are welcomed.

Mrs. Roosevelt, Attlee To Speak Next Year

Clement Attlee, former prime minister of Great Britain, and Mrs. Eleanor Roosevelt, widow of the late president, will speak at the University early next year sponsored by the University Lecture Series committee.

Mrs. Roosevelt will speak on Wednesday, Jan. 7, and Mr. Attlee on Thursday, Feb. 26, both in Schwab Auditorium.

The talk by Mrs. Roosevelt is titled "Russia—The Country and the People As I Saw Them." She will compare the home life, educational system, and health services of the Soviet Union and the United States. No subject for the former prime minister has been determined.

Ground Broken For Residence Halls

Ground was broken last week for the new Pollock residence Halls which will house 2,016 men and women undergraduate students. Seven residence hall buildings and a central dining hall building comprise the accommodations. They are expected to be completed in the fall of 1960.

No Bulletin Nov. 28

There will be no *Faculty Bulletin* on Nov. 28 due to the Thanksgiving recess. Notices for the period Nov. 21 to Dec. 5 should reach the editor by 5 p.m., Monday, Nov. 17.

Graduate Faculty Meets

The next meeting of the Graduate School faculty will be held on Thursday, Nov. 20, a 4:10 p.m. in Room 121, Sparks Building.

Calendar

Friday, Nov. 14

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. A. Taylor, Westinghouse Laboratories, on "Some X-Ray Studies of Complex Alloy Systems."

Meeting of faculty of College of Agriculture, 4:15 p.m., Room 109 Armsby Building. Artists Series program by The Canadian Players, 8:30 p.m., Schwab Auditorium.

Meeting of 11th Biennial Pennsylvania Interchapter Meeting, American Society for Metals, Mineral Sciences Building. Also Saturday.

American Chemical Society meeting, 8 p.m., Room 111 Boucke Building. Francis M. O'Connor, Tonawanda Laboratories, Linde Co., on "Molecular Sieves—Carriers for Active Chemical Compounds."

Saturday, Nov. 15

Football, versus Holy Cross, 1:30 p.m. Buffet supper, for Canon Bryan Green, 6 p.m., dining room "A," Hetzel Union Building.

Artists Series program by The Canadian Players. Matinee, 2:30 p.m., Schwab Auditorium, in "As You Like It." Evening performance, 8:30 p.m., in "Devil's Disciple."

Soccer, versus Army, 10 a.m.

Sunday, Nov. 16

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel, under the direction of Canon Bryan S. W. Green.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Canon Bryan S. W. Green.

Organ Recital, 4 p.m., Schwab Auditorium, by George Ceiga, University organist.

Hillel Foundation films, 7:30 p.m., showing "The Bespoke Overcoat" and "Wilderness of Zin."

Monday, Nov. 17

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Dr. Margaret Matson, assistant professor of sociology, on "They Call This Culture."

State College Color Slide Club, 7:30 p.m., Mineral Industries Auditorium. Milton S. Osborne, head of the department of architecture, on "A Journey through Spain," illustrated with color slides.

Vesper Service of Worship, 4:15 p.m., Helen Eakin Eisenhower Chapel.

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A."

Tuesday, Nov. 18

Distinguished Lecture in Philosophy, 4:00 p.m., Room 203 Willard Building. Dr. Leo Apostel, visiting professor of philosophy, on "Probability and Truth."

Economics Faculty Seminar, 12 noon, dining room "A," Hetzel Union Building. Dr. Roy B. Helfgott, assistant professor of economics, on "Pennsylvania's Growing Apparel Industry: A Case Study of Industrial Relocation."

Graduate School Lecture Series, 8 p.m., Room 121, Sparks. Dr. Allison Davis, University of Chicago, on "Ego Development in Adolescence and Young Adulthood."

Physics Colloquium, 4:15 p.m., Room 117, Osmond Laboratory. Dr. Bertram Donn, physics department, Wayne State University, on "Some Problems of Cosmic Chemistry."

American Chemical Society meeting, 7:30 p.m., Room 119, Osmond. Dr. Henry Taube, head, department of chemistry, University of Chicago, on "Redox Reactions of Complex Ions."

Wednesday, Nov. 19

Meeting of French Alliance, 8:30 p.m. (following meeting of French Club), Home Economics Living Center. Dr. Kent Forster, professor of European history, on "Is France Chronically Unstable?"

College of Home Economics Scholarships and Awards Dinner 6:30 p.m. Hetzel Union Building.

Graduate Mining Seminar, 4:20 p.m., Room 24, Mineral Industries.

Thursday, Nov. 20

Hillel Foundation Lectures Series on "The Nature of Religion," 8 p.m. Dr. John A. Mourant, professor of philosophy, on "Aquinas to Maritain."

Friday, Nov. 21

Players production of "The Reluctant Debutante," Center Stage, 8 p.m. Also Saturday and following Fridays and Saturdays until Jan. 10.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Albert Carlin and Sidney Teweles, U. S. Weather Bureau, Washington, D. C., on "Recent Occurrences of Expositive Warming in the High Stratosphere."

Dr. Apostel To Give Philosophy Lecture

Dr. Leo Apostel, professor extraordinaire, University of Brussels, will be the next speaker in the Distinguished Lecture Series in Philosophy on Tuesday, Nov. 18, at 4 p.m. in Room 203, Willard Building.

Dr. Apostel, now visiting professor of philosophy, will speak on "Probability and Truth," in a lecture of primary interest to members of the philosophy department staff and others interested.

Buffet Tomorrow For Canon Green

A buffet supper will be held in dining room "A" of the Hetzel Union Building on Saturday, Nov. 15, at 6 p.m. to give faculty and staff members, with their wives, a chance to hear Canon Bryan Green, rector of Birmingham, England.

Canon Green has been on campus this week in a series of lectures on basic Christianity and will be the Chapel speaker on Sunday, Nov. 16.

Cost of the buffet is \$1.50 per person. Tickets may be obtained by calling Mrs. Teed, Ext. 541.

Ceiga Concert Sunday

George E. Ceiga, University organist, will present a recital at 4 p.m. in Schwab Auditorium on Sunday, Nov. 16.

The program will include selections by Myron Roberts, Bach, Floor Peeters, Thomas Arne, Jean Langlais, Richard Purvis, Brahms, and Sowerby.

Dr. Davis In Graduate School Lecture Series

Dr. Allison Davis, social psychologist-educator, University of Chicago, will be the next speaker in the current Graduate School Lecture Series on Tuesday, Nov. 18, at 8 p.m. in Room 121, Sparks Building.

He will speak on "Ego Development in Adolescence and Young Adulthood" in talk co-sponsored by the Colleges and Education and Home Economics.

Bowhill Sigma Xi Lecturer

Dr. Sidney A. Bowhill, associate professor of electrical engineering, will present the next Sigma Xi lecture on Wednesday, Dec. 3, at 8 p.m. in Room 111, Boucke Building.

He will speak on "Rocket Investigations of the Ionosphere."

Art Show At HUB

Paintings by three young artists, all Pennsylvanians, are now on display in the Hetzel Union gallery and will remain until Dec. 13.

The artists are Victor Stephen, assistant in publication art in the College of Agriculture, Josephine Paul, of Johnstown, and Barclay Rubicam, of West Chester.

All three have exhibited widely.

Dr. Buck, Biologist, Next SCIT Speaker

Dr. John S. Buck, senior biologist, The National Institutes for Health, will be the speaker at the Science Institute for Teachers colloquium on Tuesday, Nov. 18, at 8 p.m. in the assembly room of the Hetzel Union Building.

He will speak on "Adventures in Insect Respiration."

A native of Connecticut, Dr. Buck received his degrees from Johns Hopkins and was an assistant in zoology there from 1933 to 1936. He was on the staff of the California Institute of Technology, Carnegie Institution, and the University of Rochester before going to the National Institutes of Health in 1945. He has also served at the Marine Biological Laboratory, Woods Hole, and the Johns Hopkins Jamaica expeditions in 1936 and 1941.

Linguistics —

(Continued from page one)

language but not in another. In some respects this retards society, since our meanings are not made clear in communication."

Even a universal language might not solve this problem, Dr. Coutu says, because the true meaning of a word, a phrase, or a sentence, would depend on the experience of the person in relation to the word, phrase, or sentence.

"Take the simple, but of course important, subject of food. To some people snails are a delicacy, to others abhorrent. If the experience were distasteful, the mere mention of snails might bring about a violent reaction."

It is because of reactions to words that Dr. Coutu, and a few other sociologists, have become increasingly concerned with the importance of linguistics. The subject is relatively new in the field of sociology, however, and many of the reactions have yet to be studied.

"As the science of linguistics expands," Dr. Coutu says, "so will the uses to which it is put by sociologists."

One area in which the importance of the science will be ultimately developed is in education, Dr. Coutu feels.

"In any educative process the words and meanings attached to them are extremely important. If the youngster were exposed to the meanings of the words *sine*, *cosine*, and *right angle* early in life, say at pre-school age, it would not be so difficult to teach geometry later on.

"I am not saying that geometry should be taught at age three, but rather that some of our educational problems are related to the meanings we develop at home. Unless we have the language to develop those meanings, they cannot be developed."

Dr. Coutu has been at Penn State since 1945, after teaching assignments at the University of Georgia and the University of Texas. He is a graduate of the University of Wisconsin, where he also obtained his doctorate. His book, "Emergent Human Nature," is a standard text at many institutions.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Committee Formed For Title VII, NDE Act

A Committee has been appointed to stimulate and encourage ideas and proposals for grants under Title VII of the National Defense Education Act of 1958. The major functions of the Committee are to collate research plans developing within the various Colleges and other university agencies, and to facilitate and aid, wherever possible, the submission of ideas and proposals by individual faculty members.

Title VII provides funds through grants or contracts to support research and experimentation in more effective utilization of television, radio, motion pictures and related media for educational purposes.

The members of the Committee are C. R. Carpenter (Chairman), I. C. Boerlin, L. P. Greenhill (Secretary), G. F. Johnson, O. E. Lancaster, F. R. Matson, W. H. Powers, A. J. Slivinske, and A. W. VanderMeer. Faculty members are invited to discuss ideas or suggestions relevant to Title VII with any member of the Committee as soon as possible.

Mr. E. L. Keller has been designated by the President of the University as the liaison person between the University and the administrators of the Act in Washington.

Social Science Center Meeting Features Miller

Dr. Delbert C. Miller, professor of sociology, will be the featured speaker for the annual fall meeting of the Social Science Research Center on Dec. 8, at 8 p.m. in dining rooms A, B, and C of the Hetzel Union Building.

He will report on "Human Factors in Organizational Efficiency: A Case Study in the Radar Defense of the United States and Japan." The report will be followed by discussions relative to human factors in organizational efficiency in industrial and university administration.

Faculty members and graduate students are invited.

Frankena To Give Lecture In Philosophy Series

Dr. William Frankena, professor of philosophy and chairman of the department of philosophy of the University of Michigan, will present the next lecture in the Distinguished Lecture Series for Philosophy on Thursday, Dec. 11 at 8 p.m. in Room 121 Sparks.

He will speak on "Public Education and the Good Life," in a talk co-sponsored by the Graduate School.

Dr. Frankena has studied at Cambridge University and at Freiburg, and received the doctor of philosophy degree at Harvard University. He has been visiting professor of philosophy at Columbia and Harvard and at the University of Tokyo. He was a Guggenheim fellow in 1948. He is primarily recognized for his philosophical essays and his special field of research in ethics.

At 4 p.m. on Dec. 11, he will deliver a technical talk to the faculty of the department of philosophy and others interested in Room 1, Sparks Building on "The Place of Reason in Morality."

Christmas Dinners At Maple Room Dec. 10, 11

Christmas Holiday dinners, featuring turkey and ham, will be served at the Maple Room in the Home Economics Building on Wednesday and Thursday, Dec. 10 and 11, from 5:30 to 6:30 p.m.

Since only 65 reservations can be accepted each night, patrons are asked to make their reservations as early as possible by calling Ext. 2252.

AAUP Meets Dec. 3

The local chapter of the American Association of University Professors will meet on Wednesday, Dec. 3, at 8 p.m. in Room, 220, Willard Building.

Dr. E. Willard Miller, head of the department of geography, will lead a discussion on the program of the chapter. The annual business meeting will also be held.

Thanksgiving Hours Announced For HUB

A special candlelight dinner will be served in the Terrace Room of the Hetzel Union Building on Monday, Nov. 24, from 5 to 6:45 p.m. for the Thanksgiving season.

Featured menu will include roast turkey with dressing, whipped potatoes, peas, frozen cranberry sauce, and pumpkin-mince pie. Other main courses will be roast beef, stuffed pork chop and french meat loaf. Other desserts will include apple pie, cherry crumb pie, and chocolate cake.

The Terrace Room will be closed only on Thanksgiving Day during the approaching recess. The Lion's Den will close Wednesday, Nov. 26 at 1:30 p.m. and open Sunday, Nov. 30 at 11:30 a.m.

During the same period, the Hetzel Union Building will be closed on Thanksgiving Day. On Wednesday, Nov. 26, the HUB will be open from 7 a.m. to 8 p.m. and on Friday and Saturday, Nov. 28 and 29, the hours will be 8 a.m. to 5 p.m.

Art Sale At HUB Dec. 5, 6

The third annual sale of art objects, ranging from paintings and prints to sculpture, pottery, jewelry, and other crafts will be held on Dec. 5 and 6 in the Temporary Classroom Building.

Members of the Art Education Graduate Club, sponsors of the sale, point out that the funds received will support the Club's project of purchasing permanent art objects for the University collection.

Hunt, Colwell On Telecast

Dr. Lyman C. Hunt, associate professor of education, and Dr. Richard M. Colwell, lecturer in accounting, will discuss the use of television in teaching on the weekly telecast, "Penn State: Its Men and Ideas," over WFBG-TV next week. Dr. Hunt will be heard on Monday, Nov. 24 and Dr. Colwell on Wednesday. Both participants will return on Friday, Nov. 28. The program is telecast at 9:50 a.m.

Admissions Policies, Practices Explained

(This is the second of two articles on admissions policies of the University.)

AS cited previously, a total of 3,228 applicants cancelled their applications for one reason or another. Of these, 1,579 submitted SAT scores. On the verbal portion of the test, the mean score was 524 and on the math portion 560.

It is interesting to note that of the 809 students in the first fifth of their high school class, the mean score in the verbal test was 507 and in the math portion was 547. A total of 606 second-fifth students submitted SAT results also, and their mean scores were 466 and 509, respectively.

Further information is revealed by the SAT scores. A total of 5,303 high school seniors, from Pennsylvania and other states, submitted scores to the Dean of Admissions. (In recent years about half of the applicants have submitted such scores.) This total, of course, includes many who did not come to Penn State ultimately for one reason or another.

The mean score on the verbal portion of the test of all these students was 465; on the math portion the mean score was 507.

Comparison With Former Years

No direct comparison can yet be made between this year's class and that of former years, but there are some indications that there is little difference between the 1958 and 1957 classes.

On Penn State's four-part aptitude test, since 1951, there has been a general improvement in these test scores, and especially in the mathematics portions. No general conclusion can be drawn from this data as to the reasons for this improvement since there appear to be many basic causes. It can be noted, however, that the improvement is shown not only among the students in the upper two-fifths of their high school class but also among those in the lower three-fifths.

Admission of Out of State Students

The University policy of admitting out-of-State students in the proportion of only 10 per cent permits the sons and daughters of many alumni to enter the University and provides for a more cosmopolitan student body. The policy of limiting out-of-state students is common among Land-Grant Universities.

Out-of-State applicants must qualify for admission under conditions which are at least as rigid as those for in-State students. All must take College Board examinations. Their test scores are but one factor, however, in deciding whether they are worthy candidates for admission, just as several factors are involved for in-State students.

When Are Students Admitted?

Inquiries for admission begin to come into the University in October. This year over 18,437 inquiries were received. In the latter part of October the Ad-

missions Office begins to send out application forms along with instructions.

In succeeding months these applications, along with academic records, begin to come back. In about 60 per cent of the cases, action on the application is delayed because the Dean of Admissions must ask for information omitted by the applicant or the secondary school.

In November, 1957, students who qualified for admission were given notification that they were eligible for admission and would be offered admission later. Actual offers were mailed out as early as March. The student was asked to return his acceptance accompanied by a \$25 non-refundable enrollment fee. This year 70 per cent of these early admissions were ultimately accepted.

From March on, a total of 7,593 offers of admission were made, and, as noted above, 4,365 actually enrolled. The others would include those who enrolled at some other college. Even in Ivy League schools, as at Penn State, from 25-55 per cent of those offered admission change their minds about enrolling.

When students submit their applications and other information, each record is scrutinized individually. Pennsylvanians in the upper two-fifths of their class were offered admissions immediately. Others, whose applications were considered good, were filed for further study. Students in the third-fifth of their class who submitted College Board examination scores of obviously high ranking were also offered admission early, if their scores were indicative of ability in the area in which they wished to enroll.

For example, if a student wishing to enroll in sciences or engineering had relatively poor grades in high school in mathematics and his test scores would not support his entrance into science or engineering, he would probably be discouraged from enrolling in these areas. His test scores and grades, however, might indicate that he was well qualified in other areas. He is given the option of changing his curriculum if the quota in that area is not filled.

In May, many students submit applications after refusal at other colleges. About 300 application forms are sent out after May. Because of cancellations later, some are admitted in July, August, or even September.

The University always regrets turning away well qualified late applicants for admission to main campus because of limitation of residence hall facilities. Some of the applicants find it possible to enroll at one of the other Penn State campuses.

Enrollment Quotas

Because of the limitation of facilities in some areas of study, and also because of expected demand in those areas, definite quotas are established each year for each College of the University and in some cases for specific curricula.

A student who has submitted an application for enrollment in a certain area in which there is great demand may not be admitted to that area, especially if his application is received late. If quotas are not filled in other areas, he may transfer to the other area, assuming, of course, that his background qualifies him. All applications are acted on as they are received, however, so that quotas of curricula where demand is heaviest are not filled on the basis of grades or test scores alone.

The Future

In the immediate future, admission procedures and policies are expected to remain as they are. As the demand for admission increases, as all signs indicate, undoubtedly many more qualified students will be turned down and quotas filled earlier. Penn State has had no prior practice of accepting applications before the start of the senior year and probably would not adopt such practice. However, it will become increasingly important for the applicant to make up his mind soon after receiving an offer of admission.

"We cannot at this time say whether students will be required to have a higher rating in their high school class than is now used as a criterion for admission without examination," Dr. Bernreuter says. "Nor are we in a position to say that all students will be required to take a College Board examination or our own in the future."

"It is probably safe to say, however, that fewer students, relatively speaking, in the lower fifths of their classes will be admitted because there will be so many applicants from the upper two-fifths."

UCA Seminars Begin

The University Christian Association will offer three seminars for faculty members and graduate students, beginning next week.

"Understanding the Bible" will be the subject of one seminar, taught by Dr. Luther H. Harshbarger, University chaplain, starting Monday, Nov. 24. The seminar will continue for four consecutive Mondays and will be held in Room 212, Helen Eakin Eisenhower Chapel, at 8 p.m.

The Rev. John Duley will teach the seminar, "Modern Rivals to Christian Faith," also on Monday evenings, beginning on Nov. 24 at 8 p.m. in Room 211, the Chapel.

Preston N. Williams, assistant University chaplain, will be moderator of the third seminar on "The Christian Understanding of Man," which will have its initial meeting on Tuesday, Nov. 25 and be held Wednesdays, beginning on Dec. 3. This seminar will be held in the main lounge of the Chapel and will feature a paper by The Reverends Theodore Braun, William McClain, Dale Bringman, and John Whitney, pastors of churches in the community.

Senate Minutes

MINUTES OF THE MEETING OF NOVEMBER 6, 1958

The University Senate met at 4:10 p.m. on Thursday, November 6, 1958 in the Assembly Room of the HUB with President Eric A. Walker presiding. The minutes of the October 2 meeting were approved as printed in the Faculty Bulletin for October 17, 1958. 183 senators signed the roll.

President Walker announced that the next meeting of the Senate will be in Room 121 Sparks Building since the Assembly Room in the HUB is not large enough for the increased membership of the Senate.

Communications from University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: D. H. Ford (J. D. Ashby), Miriam Lowenberg (Miriam McGrew), R. D. Pashek (Rocco Carzo), H. B. Sprague (C. D. Jeffries), R. H. Wherry (A. L. Williams), Martha Adams (Joan Nessler), R. B. Patrick (J. H. Moyer), F. D. Matson (Louis Dupree), H. E. Dickson (Francis Hyslop), J. E. Livingston (A. J. Kovar), E. T. McDonald (J. V. Frick), D. E. Hardenbergh (L. W. Hu), H. W. Dunne (A. J. Luedke), J. D. Lawther (A. R. Gray), E. R. Queer (E. R. McLaughlin), A. K. Blackadar (C. L. Hosler), F. M. Coombs (H. B. White), D. V. Josephson (F. J. Doan), H. L. Hartman (Robert Stefank), H. D. Wright (G. E. Rindone), Hummel Fishburn (W. P. Campbell), H. W. Frings (Adam Anthony), and Arnulf Muan (H. M. Davis).

New Senator

From the Graduate School, Arthur Rose in place of G. K. Nelson, who is an ex officio member of the Senate as head of the Department of Accounting and Business Statistics.

Interpretation of Rules

Communication from Hans Neuburger, department of Meteorology, concerning the interpretation of Rule E-3 as it pertains to the obtaining of a second baccalaureate degree by Air Force officers. This letter, which follows, was referred by President Walker to the Senate Committee on Academic Standards.

Ref. E-3 Rule Interpretation

The Department of Meteorology has had a continuing program of Air Force Officers training in meteorology since 1951. The officer-students are enrolled by AF contract as non-Pennsylvania residents, and represent, in the great majority of cases, candidates for a second BS. degree in meteorology. This communication is not concerned with those cases in which the officers are transfers from other universities without a previous bachelor's degree, and therefore are treated like any other regular transfer student. The Air Force officer students who are accepted for our special program have been specially selected by the Air Force on the following basis:

1. They must have a bachelor's degree from an acceptable institution, usually in the fields of engineering, physics, chemistry, mathematics, etc.
2. They must have had all the prerequisite courses for our meteorology courses, such as mathematics through differential equations, one year of physics, etc. If a candidate lacks one of the prerequisites, or has made a poor grade in them, he is required to take or repeat, respectively, such prerequisites on campus.

The meteorology program is composed essentially of the junior and senior meteorology courses condensed into 2 semesters and a summer session, including Geog. 433 and, in the summer sessions preceding the start of the program, usually some review courses in mathematics and physics. During their stay on campus these officers accumulate a total of 42 to 51 credits. Up to now they have received a BS. in meteorology at the end of the program, provided that they had achieved a grade point average of 2.0 or better and had not failed any of the meteorology courses. It is requested that the new E-3 rule be interpreted as not applying to candidates for a second bachelor's degree, provided that such candidates have fulfilled all essential requirements for graduation in the department concerned. The reasons for this request are as follows:

1. The AF Officers sent to us are first screened by the Air Force and again by the Department of Meteorology, as well as the Dean of Admissions of the University.
2. The Air Force considers our degree an

incentive for getting volunteers for the program, and the faculty of this department considers this degree good publicity for Penn State.

3. Quite a few students, who in the past have received a second BS. degree in meteorology from Penn State, have returned either privately or on Air Force contract as graduate students for MS. and PhD. degrees.

4. Many of the other large institutions (such as N.Y.U. and Chicago) with a similar program offer graduate credits for the same courses for which we give only undergraduate credits.

5. To insist on the acquisition of 60 credits prior to graduation would not only waste Air Force money, but also time, because these officers would have to fill the lacking credits with unessential courses that would in no way be related to the program.

From J. W. Breneman, Secretary of the Faculty of the College of Engineering and Architecture, referring to the interpretation of Rule E-7 as it pertains to students who are enrolled in a five year combined Bachelor of Arts and Bachelor of Science program. This letter, which follows, was referred to the Senate Committee on Academic Standards by President Walker.

As early as June 1952, the Pennsylvania State University established cooperative programs in certain types of engineering with the following liberal arts colleges: Albright College, Elizabethtown College, Gettysburg College, Lycoming College, Muskingum (Ohio) College, St. Vincent College, Westminster College.

These 3-2 programs require five years of study. The first three years at the liberal arts colleges; the last two years in the College of Engineering and Architecture at The Pennsylvania State University. For the completion of this program, the student is awarded the degree of Bachelor of Arts by the liberal arts college and the degree of Bachelor of Science by The Pennsylvania State University.

On The Pennsylvania State University Campus, the College of the Liberal Arts and the College of Engineering and Architecture have proposed a program similar to the 3-2 programs noted above. In this program, the student is enrolled in the College of the Liberal Arts for three years and schedules courses in the humanities, social sciences, mathematics, physical sciences, engineering drawing and engineering mechanics. These courses will carry transfer credit to the engineering college totalling 82 credits (including those for Ph Ed and ROTC). During the last two years of the program, the student schedules a series of courses which permit him to complete the undergraduate engineering curriculum in which he enrolls.

At the completion of the five year program, the student will be awarded the degree of Bachelor of Arts (Major in Science) by the College of the Liberal Arts and the degree of Bachelor of Science by the College of Engineering and Architecture.

In order that the proposed campus Liberal Arts Engineering 5 year program may not be in conflict with Senate rules governing undergraduates, the faculty of the College of Engineering and Architecture unanimously approved the following recommendation to the University Senate: "That Rule E-7 be changed by adding a qualifying phrase at the beginning of the present rule E-7 so that it would (as amended) read: 'With the exception of students enrolled in established five year inter-college programs leading to two bachelors degrees, a student who desires to earn a second bachelors degree may not take the periods of residence for the first and second degree concurrently.'"

We have informed the College of the Liberal Arts of our action and hope that it will concur with the recommendation of the College of Engineering and Architecture. *Changes in Senate Committee Membership*

From the SENATE COMMITTEE ON COMMITTEES the following appointments:

H. E. Goodwin to the Committee on Admissions to replace E. J. Nichols.

Mary Fuqua to the Committee on Extension Policy to replace Marjorie East.

Elizabeth Hester to the Committee on Scholarships and Awards to replace Mary Fuqua.

Changes in University Calendar, Spring Semester, 1959

From L. E. Dennis, Vice President for Academic Affairs, the following communication:

Acting under authorization from this office, the Assistant University Editor has changed the University calendar for the spring semester 1959 as it appears in new University publications as follows:

- (1) Saturday, May 30, 1959, which had originally been listed as "Memorial Day Recess," will not be so listed as far as the academic program is concerned. Instead, Memorial Day will be included in the days on which spring semester examinations are to be given.

(2) Instead of beginning spring semester examinations at 1:10 p.m. Saturday, May 23, 1959, as originally planned, the spring semester examinations will begin at 8 a.m. on Monday, May 25, 1959.

(3) Instead of the spring semester ending on Wednesday, June 3, 1959, at 12:30 p.m. as originally scheduled, the 1959 spring semester will now end at 5:30 p.m. Tuesday, June 2, 1959.

Thus the utilization of Memorial Day as a regular part of the examination period will enable the University in the spring of 1959 (a) to provide half a day between the ending of classes and the beginning of the examination period and (b) to end the examination period half a day earlier.

Memorial Day will thus be treated in 1959 as Veterans Day has been treated in the past—that is, with University offices closed in observance of the national holiday but with classes (or examinations) scheduled as usual.

Reports of Standing Committees

A. D. Brickman, Chairman of the SENATE COMMITTEE ON ACADEMIC STANDARDS, read to the members of the Senate a letter which had been received from the All-University Cabinet to the effect that "the basic physical education program be elective for veterans. . . ." He stated that this letter had been the basis for a study made by the Committee which resulted in the recommendation in the report which had been distributed with the Agenda as Appendix "A." Mr. Brickman moved the adoption of the report. The motion was seconded but was not put to a vote because a later amendment took precedence. Jay Feldstein, President of All-University Cabinet, presented the views of the students attending Penn State under the G. I. Bill and urged the members of the Senate to think seriously about reconsidering the recommendation as made by the Committee on Academic Standards. After considerable discussion on the matter Joseph Jordan moved an amendment to the motion that "the recommendation of the Committee on Academic Standards be referred to the Educational Policy Committee to consider the whole question." The motion was seconded and passed. R. E. Larson, Chairman of the Senate Committee on Educational Policy stated that the Committee was studying recommendation thirteen of the report of the Subcommittee on General Education as presented to the Senate in 1954. This recommendation was that

The present program in the College of Physical Education modified to develop better public attitudes and the proper place of sports in public and general welfare should adequately meet the requirements of this objective.

The report of the Senate Committee on Academic Standards is on file in the office of the secretary.

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, stated that copies of the revised "Standard Practices" of the Committee had been distributed with the agenda for the November meeting. These "Standard Practices" are to help the senators in preparing material to be presented to the Committee for action by the Senate. Mr. Shelley then moved adoption of the report of the Committee which had been distributed with the Agenda as Appendix "B." The motion was seconded and passed. The report is on file in the office of the secretary.

R. E. Larson, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the Informational Report of the Subcommittee on Evaluation of Television as revised and approved by the Senate Committee on Educational Policy which had been distributed with the Agenda as Appendix "C." He moved that this report be received by the Senate. The motion was seconded and passed. The report is as follows:

The Instructional Research Program at The Pennsylvania State University has published two reports on investigations of closed-circuit television for teaching University courses. These reports covered the instructional television research sponsored by the Fund for the Advancement of Education for the years 1954 through 1957.

It was the specific charge of the subcommittee to determine (1) whether the conclusions and recommendations in the reports were objective and unbiased and (2) what significance these findings have in planning the future use of television as an educational device.

With respect to the first charge, the committee finds the reports of the Instructional Research Program on Television to be essentially unbiased and objective. The following comments seem pertinent:

1. The outstanding conclusion was that in lecture type of courses, there was no significant difference in grades of students when taught by television as compared to

(Continued on page four)

Calendar

Friday, Nov. 21

Players production of "The Reluctant Debutante," Center Stage, 8 p.m. Also Saturday and following Fridays and Saturdays until Jan. 10.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Albert Carlin and Sidney Teweles, U. S. Weather Bureau, Washington, D. C., on "Recent Occurrences of Explosive Warning in the High Stratosphere."

Saturday, Nov. 22

Players production of "The Reluctant Debutante," 8 p.m., Center Stage.

Sunday, Nov. 23

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Reverend Theodore Braun.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Elfan Rees, permanent representative in Europe, Commission of the Churches on International Affairs, and advisor on refugee affairs, World Council of Churches, Great Britain.

Monday, Nov. 24

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Carroll D. Champlin, professor emeritus of education, on "Fresh European Food For Thought."

Engineering Mechanics Seminar, 4:15 p.m., Room 203, Engineering "A".

UCA Faculty Seminars, 8 p.m., Helen Eakin Eisenhower Chapel. Dr. Luther Harshbarger, on "Understanding the Bible," Room 212; and Rev. John Duley, on "Modern Rivals to Christian Faith," Room 211.

Tuesday, Nov. 25

Physics Colloquium, 4:15 p.m., Room 117, Osmond Laboratory. Dr. Lester Packer, The Johnson Foundation, University of Pennsylvania, on "Some Measurements of Metabolic Control Mechanisms in Living Cells."

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. J. H. Chesters, assistant director of research, The United States Steel Companies, Ltd., Sheffield, Eng., on "Factors Controlling Iron Oxide Deposition in Open Hearth Furnaces."

UCA Seminar, 8 p.m., main lounge, Helen Eakin Eisenhower Chapel, on "The Christian Understanding of Man."

Economics Faculty Seminar, dining room "A", Hetzel Union Building, 12 noon. Dr. Elizabeth E. Hoyt, professor of economics, Iowa State College, on "Some Confusing Aspects of U.S. Private Investment in Underdeveloped Countries."

Wednesday, Nov. 26

Thanksgiving recess begins, 11:50 a.m. Classes resume, 8 a.m., Monday, Dec. 1.

Monday, Dec. 1

UCA Faculty Seminars on "Understanding the Bible" and "Modern Rivals to Christian Faith," 8 p.m., Helen Eakin Eisenhower Chapel.

Tuesday, Dec. 2

Statistical Computation Workshop, 4:15 p.m., 105 Forestry Building. Case studies in regression analysis.

Wednesday, Dec. 3

Sigma Xi lecture, 8 p.m., Room 111, Boucke Building. Dr. Sidney A. Bowhill, associate professor of electrical engineering, on "Rocket Investigations of the Ionosphere."

American Association of University Professors meeting, 8 p.m., Room 220, Willard Building. Dr. E. W. Miller, discussion leader on chapter's program; also annual business meeting.

Graduate Mining Seminar, 4:20 p.m., Room 24, Mineral Industries Building.

UCA Seminar on "The Christian Understanding of Man," 8 p.m., main lounge, Helen Eakin Eisenhower Chapel.

Thursday, Dec. 4

Chemistry Colloquium, 1:15 p.m., Room 119 Osmond Laboratory. Dr. John W. Weigl, Ozalid Corporation, on "Organic Photoconductors."

Hillel Foundation Series on "The Nature of Religion," 8 p.m. Discussion on "The Goals of Religion and the Free Society" by Dr. J. Mitchell Morse, assistant professor of English composition; Rev. Richard W. Nutt, director of Wesley Foundation; and Dr. Jessie Bernard, professor of sociology.

Lecture by Dr. W. A. Pullman, head, department of mechanical engineering, College of Engineering Technology, Rugby, England, 3 p.m., Room 107 Sackett Building, on "Some Recent Trends in Diesel Engine Development."

Meeting of University Senate, 4:10 p.m., Room 121, Sparks Building.

Senate Minutes —

(Continued from page three)

direct instruction. This emphasizes that learning is primarily a reflection of the motivation of the student. Television does not result in poorer learning as shown by student performance.

2. The fact that there were no significant differences in performance as measured by the type of examination used does not necessarily mean that the student obtains as much from the teacher by television as by direct contact. There may be an unmeasured personal factor involved which has not been evaluated by tests.

3. It has been stated that instruction has been improved by the use of television. This improvement however undoubtedly reflects an increased use of visuals and better organization of subject matter. If the same amount of time, effort, and money were expended on improvement of instruction without the motivation of television, a similarly improved course would result. Television simply acted as an incentive to improve the course.

4. One improvement in instruction which can be directly attributed to television is the magnified presentations of small objects (e.g. art and archaeological objects; microspecimens in biology, crystallography, metallurgy, etc.; electronic and other apparatus). For this reason, the cost of television instruction is not the sole factor and in certain cases should be only a minor factor in deciding its value for classes with small enrollment.

Regarding the second charge, the committee presents the following comments:

1. Television should be considered as a means, an instrument, or an educational device but not as a goal. It has certain limitations, which must be considered in deciding whether any particular course should be offered by this means.

2. In those areas where television appears to have advantages, the University should encourage the adoption of this means of instruction.

3. If television is adopted for instruction in any particular course, the University should provide the best possible facilities for such instruction. For example, television receiving rooms should be constructed to be conducive to learning with properly designed viewing space, acoustics, and ventilation. Present receiving rooms are poorly adapted for television instruction. The lack of adequate facilities has been a major complaint of some of those using television up to this time.

4. When an increased amount of time is involved in presenting a course for television it should be included in determining the work-load of an instructor.

5. Instruction by television should be used primarily for courses with large enrollments

taught entirely by the lecture system. Cost of instruction will be reduced if the enrollment is sufficiently large. The break-even point between conventional instruction (in groups of 45) and televised instruction was estimated in the report at about 200 students. It obviously would be cheaper to teach large classes of 200 to 400 students in a single large classroom with a single instructor and without the added expense of television equipment. Therefore, in the opinion of the committee further cost analyses studies should be made to determine a more exact estimate of the break-even point. The Committee recognizes that television systems can be expanded by connecting additional classrooms as necessary to serve increased numbers of students, while without television, large classes will be limited to the number and sizes of large classrooms available.

General Comments

1. The committee agrees that instruction by television is here to stay in those areas where it can do the job better or equally as well but cheaper. Further research should be conducted to define these areas.

2. The various facets of instructor-student contact and the effects of television on them, are not fully understood and should be studied further. This may include improving two way audio-communication for television classes.

3. Television can serve as an excellent medium by which other teachers can learn by watching experienced teachers in action.

4. Penn State will be faced with an increased enrollment, accompanied by a critical shortage of teachers. Instruction by television can help in certain areas. It can also reduce the confusion and inconvenience that now exists as students move from classroom to classroom on a constantly expanding campus, by having some of their instruction brought to the same classrooms via television. Thus, instruction would be moved via television and not the students. Television might also minimize the time lost by the ill student and the physically handicapped student. It can also make instruction available at almost any hour of the day.

5. The teaching and continued study of television production and broadcasting is an important phase of the use of television as an educational device.

Comments and Recommendations for the Good of the University

President Walker spoke about the meeting of the American Association of Universities which he attended.

The next regular meeting of the Senate will be on December 4, 1958 in ROOM 121 SPARKS BUILDING. Note change of meeting place. The agenda will be distributed on November 20, 1958.

The meeting adjourned at 5 p.m.

Robert G. Bernreuter
Secretary

Christmas Trees For Sale To Campus Departments

University departments may purchase fire-proofed Christmas trees through the Department of Physical Plant. Orders will be accepted until December 15. The orders should show the size of the tree desired and the date of delivery. An interdepartmental transfer form must be used in ordering.

The following prices apply: 3 to 4 ft. trees \$2.50; 5 to 7 ft., \$4.00; 8 to 10 ft., \$5.00; 10 to 12 ft., \$6.00; and 12 to 15 ft., \$8.00.

Departments are cautioned that all trees used in Campus buildings must be fireproofed. Fireproofing will be done by the Department, for campus organizations only, between 1 p.m. and 3 p.m. on Dec. 4, 9, 11, 16, and 18, under the west stands at Beaver Field.

Organizations and departments are also reminded that decorations and coverings used on tables where lighted candles are placed must be of fire resistant material and that lighted candles are not to be used in processions.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

Dec. 7—Dr. Luther H. Harshbarger, University chaplain.

Dec. 14—Chapel Choir Christmas program

CONCERTS

Dec. 10—Artists Series program by Elizabeth Schwartzkopf.

Dec. 13—Chapel Choir Christmas program

DRAMATICS

Dec. 4, 5, 6—Players production of "The Druid Circle," 8 p.m., Schwab Auditorium.

ATHLETICS

Dec. 13—Wrestling, vs. Colgate.

Dec. 20—Basketball, versus Colgate, 8 p.m.

LECTURES

Dec. 11—Distinguished Lecture Series in Philosophy. Dr. William Frankena, chairman, department of philosophy, University of Michigan.

Senate Meets Dec. 4

The University Senate will meet at 4:10 p.m., Room 121, Sparks Building on Thursday, Dec. 4. Please note change of meeting place.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.



Staff of the new labor education department includes, left to right, Helmut Golatz, Anthony Luchek, Joseph G. Rayback, acting head, and Stanley M. Hostler.

Labor Education Department At Work

EVENTUALLY, says Dr. Joseph G. Rayback, Penn State's leadership in the area of labor education will be felt in universities and colleges throughout the east.

As acting head of the department of labor education (he is also head of the department of history), Dr. Rayback is hard at work bringing under control the many problems of a new department.

"But it isn't as though we are starting from scratch in the area of labor education," he says. "Penn State has had an effective program in this field for a long time.

"The Labor Education Service of General Extension, with Anthony S. Luchek heading up the work, has been an important aid to labor in the Commonwealth. On campus, we have had a labor-management curriculum for a number of years and have regularly enrolled about 70 students. We haven't done much with research, but Penn State has nevertheless been a model for other states in its overall program.

"Now we expect to strengthen our leadership."

As early as 1947, Penn State was co-operating with trade unions in Pennsylvania through the Union Advisory Committee, which included not only University representatives but also men

from the AFL-CIO and two railroad brotherhoods. This committee advised the Labor Education Service on projects it could carry out to be helpful to unions.

In 1954, the University established a Labor Management Curriculum Committee which advised on the resident courses to be offered. Representatives of this committee met with the Union Advisory Committee to acquaint the trade unions with the program the University could offer.

Since the approval of a department of labor education by the Board of Trustees in June, a new step has been taken. A University Advisory Committee, which is to consist of four members of the faculty, representing the four Colleges involved in the LMR curriculum (Business Administration, Education, Engineering and Architecture, and Liberal Arts); four members from the trade unions; and two ex-officio members from the department of labor education; will maintain liaison with labor.

This committee will also advise the department on all its functions in instruction, research, and extension. The union members of the Committee will be nominated by the Trade Union Conference Committee, which replaces the Union Advisory Committee.

"These steps," Dr. Rayback points out, "have been taken to develop deeper and broader University programs both on and off campus. The same functions of resident instruction, research, and extension carried out by other departments on campus will be maintained by the new department.

"For the time being we don't expect any great changes in the resident program, except perhaps on the graduate level. We hope to develop a library, which will be helpful in all three areas.

"The research program, within limitations of the budget, will result in information of value to many people. Some of it will be fact-finding; we suppose some of it will also be theory."

The extension program was originated by the Informal Division of General Extension, headed by Hugh G. Pyle, who was instrumental in having labor leaders come here. Last summer a total of 1174 union leaders and rank and file members attended one week institutes on campus on such subjects as "Building the Local Union" and "The Steelworker and the World of Ideas."

Other educational programs were held during the winter and spring months. More than 300 trade union members attended one-day institutes and 420 members attended short courses, varying from six to 10 weeks in such areas as Milton, Lancaster, Johnstown, and Clairton.

"We hope to develop more programs with the locals," Dr. Rayback says.

In addition to Rayback and Luchek, the department staff for the present also includes Helmut Golatz and Stanley M. Hostler, both of whom were in the Labor Education Service. In the overall program, however, including the extension activities, many other faculty members are available in other departments.

The trade unions have suggested, for example, a press conference, to help locals with their publications and other press media. Conceivably faculty members of the School of Journalism would be important to such a conference. The University faculty can probably serve in many other ways.

Faculty Salaries Increase 11 Per Cent In Biennium

The average faculty salary at the University increased approximately 11 percent during 1957-59 biennium, according to President Eric A. Walker. He said the greatest average increase was at the full professorial level, where the rise was 12.4 percent.

The salary pattern, by academic ranks, follows:

Rank	Min.	Avg.	Med.	Max.
<i>Professor</i>				
10-months	\$6,720	\$8,670	\$8,442	\$14,760
12-months	7,668	10,175	9,924	14,100
<i>Assoc. Professor</i>				
10-months	5,400	6,942	6,900	9,000
12-months	6,216	8,055	7,896	10,800
<i>Asst. Professor</i>				
10-months	4,500	5,788	5,712	9,600
12-months	4,860	6,863	6,780	9,600
<i>Instructor</i>				
10-months	3,600	5,044	5,064	7,944
12-months	4,128	5,587	5,412	8,724

"Gratifying as these advances are," Dr. Walker explained, "they still leave us in an unfavorable position with those American universities with which we must compete for top-flight scholars and scientists. For this reason, salary increases have top priority in the appropriation request I shall make to the Governor and the Legislature in January."

Salary increases during the 1957-59 biennium were made strictly on a merit basis. "By this means we have been able to hold most of our best people," President Walker observed, "but salary

adjustments granted at comparable institutions during the same two years compel us to do much better next year. It will also be necessary to make some allowance for the erosional effect of creeping inflation on average salaries."

President Walker, noting that there are two basic sources of funds for salary increases, said: "One is new money, and I shall do my best to keep the salary account growing; the other is optimum use of the money now available to us."

He added that anything the faculty can do to enhance its own productivity "will augment the funds available for salary increases as effectively as larger appropriations do."

President Walker expressed his appreciation for the cooperation of faculty and staff in the pioneering experiments the University has been undertaking to raise its effectiveness, both qualitatively and quantitatively.

"Even the moderate projections of our long-range report set us a task of awesome proportions," Dr. Walker said. "At first it looked overwhelming. But the initiative and ingenuity of the faculty is demonstrating that we have the will, and are finding the way, to do our job with the resources we shall have at hand."

Dr. Wilson Dies

Dr. Harold K. Wilson, associate dean of admissions for research and development, died on Nov. 26 at his home in State College at the age of 58.

In 1945, Dr. Wilson was named head of the department of agronomy. The following year he became vice-dean and director of resident instruction in the College of Agriculture and three years later dean of men and director of the Division of Intermediate Registration. In 1952 he resigned the position as dean of men to devote full time to the DIR work. He assumed the position as associate dean of admissions last year.

Frankena To Lecture In Philosophy Series

Dr. William Frankena, professor of philosophy and chairman of the department of philosophy of the University of Michigan, will present the next lecture in the Distinguished Lecture Series for Philosophy on Thursday, Dec. 11 at 8 p.m. in Room 121 Sparks.

He will speak on "Public Education and the Good Life," in a talk co-sponsored by the Graduate School.

At 4 p.m. on Dec. 11, he will deliver a technical talk to the faculty of the department of philosophy and others interested in Room 1, Sparks Building on "The Place of Reason in Morality."

Fraternities Seek Help In Asia Book Drive

Alpha Phi Omega and Gamma Sigma Sigma are conducting a drive for books to be sent to Asian countries through The Asia Foundation, a non-profit, non-political organization which last year shipped more than 400,000 items to many hundreds of institutions in Asia.

The drive begins Monday, Dec. 8 and will continue until Friday, Dec. 12. Collections points have been established in the HUB card room, Nittany Residence Hall 20, Redifer Hall Lobby, Waring Hall Lobby, and McElwain Hall Lobby.

The books are used in aiding Asian students obtain a better understanding of the Western world and greater literacy of the English language, and also stimulate inter-Asian communication.

Books in good condition, published after 1945, in such varied fields as history, philosophy, education, economics, geography, physical education, etc., are being sought.

Graduate Student Dance

All graduate students and faculty members are invited to attend the annual dance sponsored by the Graduate Student Association in the HUB tonight from 9 to 12. Dress is semi-formal and admission is free.

Art Exhibits In Boucke

One-man exhibits of paintings by faculty and staff members of the College of Business Administration, or members of their families, are being displayed in the faculty library of Boucke Building.

The first exhibit, which concludes today, is of the work of Enid Cutler, wife of Dr. Howard Cutler, professor of economics, director of general education, and assistant to the vice-president for academic affairs. They are mainly abstracts.

The next exhibit will be of the work of Philip A. Klein, assistant professor of economics, starting Dec. 8.

Petroleum Refining Lab Work Anniversary Noted

Dr. Merrell R. Fenske, director of the Petroleum Refining Laboratory, was presented with a Certificate of Appreciation on the 30th anniversary of the research relationship between the University and the Pennsylvania Grade Crude Oil Association recently.

W. S. Zehrung, vice-president of the Pennzoil Division, South Penn Oil Co., made the presentation for the Association.

Other speakers at the dinner included President Eric A. Walker and J. P. Jones, president of the Association. Faculty members also honored included Dr. Dorothy Quiggle, research professor of chemistry and chemical engineering; Rodney E. Hersh, associate research professor of chemical engineering; Dr. Edward F. Koch, associate research professor of petroleum chemistry; Dr. F. G. Brickwedde, dean of the College of Chemistry and Physics; and Dr. W. C. Fernelius, head of the departments of chemistry and chemical engineering.

Eastview Terrace Roads Closed To Through Traffic

Streets of Eastview Terrace, faculty housing development, are closed to through traffic and are to be used only by persons having business in the area, Elwood F. Olver, director of the department of security, has announced.

An increasing number of motorists have been utilizing the area to reach College Ave., endangering the lives of children and adults in the area. Campus patrolmen will be assigned to check on violations, he said.

University To Ask For Loan Money Under NDE Act

The University has informed the Federal government of its wish to participate in the student loan program authorized by the National Defense Education Act of 1958.

President Eric A. Walker has announced that the University will seek \$116,250 for the balance of the 1958-59 academic year and \$232,500 for each of the two succeeding years. The Act limits each institution to a total of \$250,000 in any one fiscal year.

Items of Interest

Warren S. Smith, associate professor of theatre arts, will speak on "The Delsly Affair," before the New York Chapter of The Shaw Society of America on Friday, Dec. 19 . . . **Richard N. Diller**, associate professor of psychology and member of the Management Training Staff, penned a short article, "Horse Sense," for the October issue of *Advanced Management*, publication of the Society for the Advancement of Management."

Dr. E. Willard Miller, head of the department of geography, presided at a session on "How to Prepare and Use Map Slides and Picture Slides Effectively" at the meeting of the National Council of Geographic Education in New York last week . . . **Dr. Gerhard Kremp**, senior research associate in geology, has been nominated for membership as regional secretary for North America to the International Committee on the Microflora of the Palaeozoic.

David H. McKinley, associate dean of the College of Business Administration, spoke on "How Solid is the Present Recovery," before the Owners-Executive luncheon at the 44th annual convention of the Pennsylvania Consumer Finance Association in Philadelphia recently . . . An article by **Dr. R. Hadly Waters**, professor of transportation, on "An Itinerary for Practical Transportation," appeared in the October issue of *Collegiate News and Views* . . . **Ossian MacKenzie**, dean of the College of Business Administration, attended the 63rd annual Congress of American Industry this week.

M. Jerome Weiss, assistant professor of education, is author of an article, "My Class Taught Me — The Best Laid Plans Are Individualized," which appears in the Autumn issue of the *Journal of Developmental Reading*. He is a member of the Committee on Playlist of the National Council of Teachers of English . . . **Dr. Alfred G. Pundt**, professor of European history, is author of an article, "Privilege in Pre-Revolutionary France: The Twilight of the Feudal Order" published in the November issue of *The Social Studies*.

The book, "Your Child and His Art," by **Viktor Lowenfeld**, head of the department of art education, has been translated into Spanish and published by the Editorial Kapelusz, Argentina. This is the sixth language in which the book has been published . . . **Dr. Hans Neuberger**, head of the department of meteorology, recently served as chairman of the General Session on Atmospheric Physics at a symposium held at the University of Michigan recently.

Dr. Frank M. Swartz, head of the department of geology, was elected president of the Paleontological Society at the recent jubilee meeting of the 50th anniversary of the Society in St. Louis.

Oswald D. Bowlin, assistant professor

of commerce, discussed corporate financing since World War II before the Blair County Bankers Association in Tyrone recently . . . **Dr. Doris Goodrich**, assistant professor of economics, is author of the book, "Iraq's People and Resources," published as vol. 18 of the *University of California's "Publications in Economics"* recently.

Joseph J. Eisenhuth, research associate at the Garfield Thomas Water Tunnel, presented a paper titled, "The Unsteady Wake in Turbomachinery and Its Effect on Cavitation," at the annual meeting of the American Society of Mechanical Engineers this week . . . **Dr. Robert D. Pashek**, associate professor of transportation, has been appointed chairman of the national educational committee by Delta Nu Alpha, transportation society.

Suggestions Asked For Title VII, NDE Act

The Committee appointed to encourage ideas and proposals for grants under Title VII of the National Defense Education Act of 1958 has gathered together a number of ideas that could form the basis of proposals for grants. The Committee would like to hear from individuals or departments who would be interested in implementing any of these ideas and in developing them into research proposal form. Additional suggestions would also be welcomed. Most of the ideas gathered so far fall under the following headings:

1. Development of procedures for producing and evaluating short films (from 1 to 3 minutes or so in length) which would be geared to the presentation of specific concepts in regular or televised courses.

2. Development of procedures for obtaining short segments of commercially produced films and television recordings for use in instruction.

3. Conduct studies to ascertain the main obstacles to the more extensive use of audio-visual materials by university faculty members.

4. Develop and evaluate methods for distributing films from the film library to classrooms by means of closed-circuit television.

5. Provide time and resources for TV and other teachers to analyze their courses in order to develop a full range of appropriate instructional materials.

6. Make a survey to determine present facilities and potential needs for audio-visual materials by resident and extension instructors.

7. Study the value of recordings of courses or segments of courses (on film or video tape) for subsequent reuse, review by students, for use in the Penn State Centers or for exchange with other institutions.

8. Conduct an experiment in which an entire curriculum would be saturated with suitable audio-visual materials. Compare performance of students so instructed with that of students taught by the present methods in the same curriculum.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

Jan. 11—The Rev. Preston N. Williams, assistant University chaplain.

CONCERTS

Dec. 13—Chapel Choir Christmas program

Jan. 13—Mozart Concert Opera Group, Artists Series

ATHLETICS

Dec. 13—Wrestling, vs. Colgate.

Dec. 16—Basketball, vs. Gettysburg

Dec. 20—Basketball, versus Colgate, 8 p.m.

Jan. 8—Basketball, vs. West Virginia

Jan. 10—Wrestling, vs. Lehigh

Jan. 10—Gymnastics, vs. Temple

9. Investigate methods and the value of using in the classroom commercial television broadcasts of outstanding events.

10. Develop methods for producing, accurately cataloging and distributing specialized types of audio-visual materials among universities.

11. Compare several methods of training teachers in the effective use of audio-visual materials at both the public school and college levels.

12. Use the method of analyzing test results as a basis for improving teaching materials and presentations.

13. Develop new testing procedures that would attempt to measure a wider range of course objectives, as well as tests that would be appropriate for evaluating the possible contributions to learning of visual materials.

14. Study the possibility of extending the use of television in large enrollment courses taught by the lecture-demonstration method.

15. Study methods of stimulating active student participation (including two-way communication) during televised instruction.

16. Develop an instructional materials facility so that instructors could obtain easily a wide range of audio-visual materials.

17. Develop a library of film and tape recordings of special events including lectures by outstanding visitors to the campus.

18. Investigate applications of color television to the University's teaching program.

19. Study and evaluate various orders of presenting new material both within a course and between courses for best effect on learning.

20. Investigate the use of mechanical devices (e.g. B. F. Skinner's Teaching Machine or the Penn State Classroom Communicator) for stimulating learning.

The members of the Title VII Committee are: C. R. Carpenter (Chairman), I. C. Boerlin, L. P. Greenhill, G. F. Johnson, O. E. Lancaster, F. R. Matson, W. H. Powers, A. J. Slivinske and A. W. VanderMeer. It would be appreciated if interested individuals would contact any member of the Committee as soon as possible.

Calendar

Friday, Dec. 5

Players production of "A Clearing in the Woods," by Arthur Laurents, 8 p.m., Schwab Auditorium.

Center Stage show, "The Reluctant Debutante," 8 p.m., Center Stage.

Graduate Student Association dance, 9 to 12 p.m., Hetzel Union Building ballroom.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Howard A. Meyerhoff, executive director, Scientific Manpower Commission, on "Wanted: A National Mineral Policy."

Sunday, Dec. 7

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Rev. Hal Leiper.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther Harshbarger, University chaplain.

Hillel Foundation kinescope of NBC-TV program titled, "Israel: The Next Ten Years," 7:30 p.m.

Monday, Dec. 8

Lecture by Marcel Breuer, noted New York architect, on "Architecture Today," 7:30 p.m., assembly hall, Hetzel Union Building, sponsored by department of architecture.

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Michael Chiappetta, associate professor of education, on "Pedagogy of Teaching."

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A".

Social Science Research Center meeting, 8 p.m., dining rooms A-C, Hetzel Union Building. Dr. D. C. Miller, professor of sociology, on "Human Factors in Organizational Efficiency: A Case Study in the Radar Defense of the United States and Japan."

University Christian Association Seminars, 8-10 p.m., The Chapel; "Understanding the Bible," with Dr. Luther Harshbarger, and "Modern Rivals to Christian Faith," with The Rev. John Duley.

Vesper Service, 4:15 p.m., The Chapel.

Tuesday, Dec. 9

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. Dr. Sidney Siegel, associate professor of psychology, on "A Theoretical Model of Human Choice Behavior."

American Chemical Society meeting, 8 p.m., Room 111, Boucke Building. Dr. F. O. Rice, Catholic University, on "Chemistry on Jupiter."

Hillel Foundation series on "The Nature of Religion," 8 p.m. Drs. Roy C. Buck, Nicholas M. Brentin, and Louis Dupree, on "Where Are They Beneficial?"

Science Institute for Teachers Colloquium, 4:15 p.m., Room 112 Buckhout Laboratory. Eleanor McCoy, University of Illinois, on "A New Mathematics Program for High Schools."

College of Business Administration faculty meeting, 4:10 p.m., Room 111, Boucke Building.

Slavic Club meeting 7:45 p.m., Room 111 Boucke. Discussion of Russian Area program, with Dr. Allan Rodgers, Edgar H. Lehrman, Vaclav E. Mares, and Edward C. Thaden.

Physics Colloquium, 4:15 p.m., Room 117, Osmond Laboratory. Dr. J. D. Lidofsky, Pupin Cyclotron Laboratory, Columbia University, on "The Research Program of the Columbia Van de Graaff Accelerator Group."

Student recital of Bach's Cantata No. 140, "Sleepers, Awake," conducted by Raymond Brown, 3:15 p.m., Room 117, Carnegie Building.

Statistical Computation Workshop, 4:15 p.m., 105 Forestry Building. Case studies in regression analysis.

American Society for Metals meeting, 7:30 p.m., Mineral Industries Auditorium. R. G. Berggren, Oak Ridge National Laboratories, on "Radiation Effect in Structural Metals."

Miss Schwartzkopf In Artists Series Program

Tickets for the Artists Series program by Elisabeth Schwartzkopf, soprano, on Wednesday, Dec. 10, will be distributed to the general public on Monday, Dec. 8, and Tuesday, Dec. 9, from 9 a.m. to 12 noon and 1 to 5 p.m. at the Hetzel Union Building desk. The program will be given at 8:30 p.m. in Schwab Auditorium.

Wednesday, Dec. 10

Artists Series program by Elisabeth Schwartzkopf, soprano, 8:30 p.m., Schwab Auditorium.

Thursday, Dec. 11

Distinguished Lecture Series in Philosophy by Dr. William K. Frankena, professor of philosophy, University of Michigan, on "Public Education and the Good Life," 8 p.m., Room 121, Sparks Building, co-sponsored by the Graduate Lecture Series.

Meeting of American Society of Mechanical Engineers, 7:30 p.m., Room 105, Mechanical Engineering Building. R. F. Devince, supervising engineering, Westinghouse Electric Corp., on "Pressurized Water Reactors at the Shippingport Plant."

Friday, Dec. 12

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. G. W. Brindley, head, department of ceramic technology, on "Studies of Some Mineral Reactions."

D. C. Miller In Talk To Social Science Meeting

The annual fall meeting of the Social Science Research Center will be held on Dec. 8, at 8 p.m. in dining rooms A, B, and C of the Hetzel Union Building.

Dr. Delbert C. Miller, professor of sociology, will present "Human Factors in Organization Efficiency: A Case Study in the Radar Defense of the United States and Japan." Discussants will relate human factors in organizational efficiency to industrial and University administration.

Fishburn, Andrews On Television

Dr. Hummel Fishburn, head of the department of music, and Dr. Frances Andrews, associate professor of music education, will be featured on the weekly television broadcast, "Penn State—Its Men and Ideas" next week. They will discuss music education in the continuing series of telecasts on questions of education.

The program is seen on Monday, Wednesday, and Friday from 9:50 to 10:00 a.m. over WFBG-TV.

Applications Due For NSF Fellowships

Department heads and advisors of seniors and graduate students are asked to remind students who apply for the Cooperative Graduate Fellowships of the National Science Foundation and for the Summer Fellowships for graduate teaching assistants that applications must be in the office of the Dean of the Graduate School, Room 104 Willard Building, by Dec 15, 1958.

Archaeology Expedition Subject Of Monograph

A monograph titled, "Shamsir Ghar: Historic Cave Site," has been published by Dr. Louis Dupree, associate professor of anthropology, for the American Museum of Natural History.

The monograph embodies part of the results of an archaeological expedition in 1950 to northern Afghanistan and presents a stratigraphic sequence of culture from the birth of Christ to the Mongol invasion.

High School Math Subject Of SIFT

Miss Eleanor McCoy, of the University of Illinois Committee on School Mathematics, will be the speaker on the weekly program of the Science Institute for Teachers at 4:15 p.m. on Tuesday, Dec. 9, in Room 112, Buckhout Laboratory.

Miss McCoy, teacher of mathematics at Pekin, Ill., Community High School, spent most of last year visiting teachers in the pilot schools of the UICSM project and has presented the story of the project at various professional conferences and National Science Foundation institutes.

Her topic for the lecture will be "A New Mathematics Program for High Schools."

Conversion To Natural Gas To Be Made At Christmas

The Central Pennsylvania Gas Company will convert the University's gas burning equipment for use of natural gas during the Christmas recess.

For that reason a list of gas burning equipment must be furnished, says W. H. Wiegand, director of the department of physical plant, so that the Company can accomplish the conversion job during the allotted time.

Departments should advise Mr. Wiegand's office no later than today (Dec. 5) of the gas burning equipment in their areas of responsibilities.

Dr. Siegel In Econ Faculty Seminar Talk

Dr. Sidney Siegel, associate professor of psychology, will discuss "A Theoretical Model of Human Choice Behavior," at the weekly Economics Faculty Seminar on Tuesday, Dec. 9, at 12 noon in dining room "A" of the Hetzel Union Building.

The talk will be concerned with certain aspects of the theoretical work Dr. Siegel conducted last year while a fellow at the Center for Advanced Study in the Behavioral Sciences, Stanford University.

Noted Architect To Lecture

Marcel Breuer, New York architect, will speak on "Architecture Today" at a public lecture to be held at 7:30 p.m., Monday, Dec. 8, in the Assembly Hall of the Hetzel Union Building.

The lecture is sponsored by the department of architecture.

Student Recital Of Bach Cantata Tuesday

A student recital of Bach's Cantata No. 140, "Sleepers, Awake," conducted by Raymond Brown, assistant professor of music, will be given on Tuesday, Dec. 9, at 3:15 p.m. in Room 117, Carnegie Building. The group has been specially formed to perform rarely heard choral works. The public is invited.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Two Named Distinguished Visiting Professors

Dr. Jeanne Hersch, professor of philosophy at the University of Geneva, has been named distinguished professor of philosophy for the spring semester and Dr. Henry Margenau, who has served on the faculty of Yale University since 1931, has been named distinguished visiting professor of physical and engineering sciences.

The appointments are the fourth and fifth to be made in the plan of distinguished visiting professorships begun this semester. At present, Dr. Herbert Heaton is serving in history. Dr. Thomas D. Clark will fill a similar role next semester. Dr. Edwin G. Nourse will serve as distinguished visiting professor of economics next semester.

Dr. Hersch has taught at the International School of Geneva; in Chile; and has been a tutor to the royal family of Thailand. She is internationally known as an interpreter of the philosophy of Karl Jaspers and an original thinker in the existentialist tradition.

Dr. Margenau taught at Nebraska and was a Sterling research fellow before being named assistant professor of physics at Yale in 1931. He has been Eugene Higgins professor of physics and natural philosophy since 1949, and has served as visiting professor at the Universities of Heidelberg, California, and Washington and at Haverford College and Carlton College.

Credit Union Group Meets To Write Application

Further steps to form a credit union open to all full-time University employees will be taken Monday, Dec. 15, at 7:30 p.m. in Room 124 Sparks Building. Application for a federal charter will be written with the aid of Marlin J. Dean, examiner and regional representative of the Pennsylvania Credit League, Harrisburg. Temporary officers of the University Credit Union are Gerald M. Moser, assistant professor of romance languages, chairman, and Lawrence F. Marriott, assistant professor of soil technology, as secretary-treasurer.

Labor Education Advisory Committee Is Appointed

Effective December 15, a University Advisory Committee for the department of labor education will be established. President Eric A. Walker has announced.

University members of the Committee will include J. William Caldwell, associate professor of industrial engineering, and L. E. Fouraker, professor of economics and assistant dean for research of the College of Business Administration, who will serve for two years; R. Wallace Brewster, professor of political science and K. R. Smith, professor of psychology, will serve one-year terms.

Joseph G. Rayback, acting head of the department, and Anthony S. Luchek, professor of industrial relations, will serve ex-officio on the Committee as chairman and secretary, respectively.

The Committee will also have four representatives of the Trade Union Conference Committee: Joseph A. McDonough and Harry Boyer (two-year terms) and Charles J. Sludden and Michael Johnson (one-year terms). They were nominated by the Conference Committee.

Borland Honored In Building Naming

The late Andrew A. Borland, who served on the faculty for 34 years and as head of the department of dairy science from 1919 until his retirement in 1948, has been honored in the naming of the Dairy Building, which will be known as Borland Laboratory.

Borland, who died last Oct. 12, came to Penn State in 1905 after teaching in the public schools of Mercer County for seven years. He received the bachelor of science degree in dairy science in 1909 and a year later was conferred the master of science degree by the University of Wisconsin. After a year as assistant in dairy science research at Penn State he went to the University of Vermont and returned to Penn State in 1915.

Special Services For Christmas Announced

The annual Christmas Services conducted by the University chaplain, will be held on Saturday at 10:55 p.m. and Sunday at 10:55 a.m.

Preceding the Saturday night service will be the annual carol sing. Raymond H. Brown, assistant professor of music, will conduct the sing, which will be held in front of Schwab Auditorium at 10:20 p.m.

The Candlelight Service will feature a musical program with the Chapel Choir, under the direction of Mrs. Willa C. Taylor, professor of music, and the combined Meditation Choirs, under the direction of James W. Beach, instructor in music. George E. Ceiga, University organist, and members of the Blue Band and Symphony orchestras, will accompany.

Ceiga has composed several numbers specially for the service. Liturgists for the service will be Dr. Luther H. Harshbarger, the Reverend Preston N. Williams, and Charles E. Minneman.

The Chapel Service on Sunday will include musical selections from the Candlelight Service. The Reverend Williams will give the meditation on, "The Sign of God's Mercy."

Penn State 11th In Full Time Enrollment

Penn State retained its ranking as 11th largest college or university in full-time enrollment for the current year, Dr. Raymond Walters, University of Cincinnati president emeritus, has announced.

If full-time and part-time enrollments are combined, Penn State ranks 16th.

Dr. Walters reported that full-time enrollments in 944 accredited universities surveyed showed an increase of 4.1 per cent over 1957 and combined enrollment increase of 5.4 per cent.

The University of California retained its position as largest college in full-time enrollment with 43,478 students. Penn State's full-time enrollment is 16,419.



Members of the State College Community Fund Drive committee get together for study of results. Left to right, Ronald Rumbaugh, chairman of out-of-town business solicitation; Richard N. Fedon, president of the executive committee; Mrs. Mary Alice O'Brien, permanent secretary; Dr. Robert K. Murray, 1958 drive chairman; and George Donovan, residential solicitation chairman.

Town-Grow Work Together In Community Fund Drive

THE College Area Community Fund Drive, which drew to a close within sight of its 1958 goal of \$44,000, called on a total of more than 600 volunteer workers to carry out the campaign.

Many of the workers were University faculty and staff members or their wives, working in close harmony with other area residents to reach the admittedly ambitious goal set by the Fund executive committee.

"We feel that the response to the appeal," says Robert K. Murray, associate professor of history, who was the 1958 chairman, "was gratifying in view of the other expenses area residents had to meet during the past year."

"Certainly one reason for the success of the drive was the usual generosity of our people, but I feel that the time and effort of the 600 volunteer workers had a great effect on the drive. The fact that so many were willing to help is in itself a commendation to the area."

The "town and gown" relationship in the drive extended through all operations. On the executive committee of the Fund is Earl B. Stavely, associate dean of the College of Engineering and Architecture, who also is vice-president of the Fund, and Otto E. Mueller, member-at-large.

George Donovan, Coordinator of Student Activities, was residential solicitation chairman of College Area; John D. Vairo, instructor in journalism, was publicity chairman.

Mary Alice O'Brien, widow of the late J. F. O'Brien, who headed the department of speech for many years,

and herself a part-time instructor in history, has been permanent secretary of the Fund for a number of years.

Richard N. Fedon, local businessman, is president of the executive committee; Ronald Rumbaugh, secretary of Chamber of Commerce, chairman of the out-of-town business solicitation; and Dr. Richard Barrickman, local dentist, chairman of in-town business solicitation.

The Fund drive covered eight areas in the immediate vicinity of State College, with an area chairman in each, a corps of captains, lieutenants and solicitors. Among the area chairmen were Lynn Christy, associate professor of English composition, and Orvel A. Schmidt, associate professor of forestry. Others were wives of faculty or staff members.

As the name implies, Dr. Murray says, the drive was a community affair and the fact that University personnel participated on a broad basis demonstrates once again that State College's town-gown relationship is a working one.

Wilder To Read Dickens' Christmas Carol Wednesday

Jon Barry Wilder, senior in speech and theatre arts, will read Charles Dickens', "A Christmas Carol" at 8 p.m., Wednesday, Dec. 17, in Room 121, Sparks Building.

The reading is sponsored by the University Readers, of which Wilder is a member, the department of speech, and the University Christian Association.

Social Security Tax, Benefits To Increase

At the present time Social Security tax is deducted from a faculty or staff member's salary at the rate of $2\frac{1}{4}\%$ on all earnings up to \$4,200 per year.

According to Federal law, effective January 1, 1959, the tax will be as follows:

A. Tax rate increased from $2\frac{1}{4}\%$ to $2\frac{1}{2}\%$.

B. Tax taken on all earnings up to \$4,800 per year, instead of \$4,200 per year as at present.

Effective the same date, benefits will also increase to persons who will retire and are eligible to receive Social Security payments.

For example, at the present time the maximum annuities an individual can receive at age 65 from Social Security is \$108.50. Effective January 1, 1959 this person will be eligible to receive \$116.

Also, since social security is being taken on earnings up to \$4,800 persons retiring in the future will be able to maintain a higher average salary and consequently will be entitled to more benefits than in previous years.

Since social security has been integrated with the State Employees' Retirement System, and the amount that an employee pays into the State Employees' Retirement System is reduced by 40% of the amount paid into Social Security, an employee will have a smaller percentage of his salary deducted for State Employees' Retirement, beginning Jan. 1, 1959.

Each employee who is a member of the State Employees' Retirement System will contribute one tenth of one per cent less in the State Employees' Retirement System starting January 1, 1959.

Meditation Chapel Choirs In Special Service Dec. 16

A Christmas service adapted from The Festival of Lessons and Carols, the traditional Christmas Eve celebration at King's College Chapel in Cambridge, England, will be presented by the Meditation Chapel Choirs on Tuesday, December 16 at 8:00 p.m. in the Helen Eakin Eisenhower Chapel.

Directing the five choirs, totaling 140 voices, will be James W. Beach, Assistant Director of the Chapel Choirs. Participating in the service as liturgists will be members of the office of the University Chaplain and as lectors, members of the Meditation Choirs.

Following the Service the congregation is invited to attend a reception in the Memorial Lounge being held by the Meditation Chapel Choirs.

Grad Record Exam Set

The next Graduate Record Examination will be held at Penn State on Saturday, Jan. 17, at 8:45 a.m. and 1:45 p.m. Bulletins of information and applications are available in Room 117, Buckhout Laboratory. Applications must be received at Educational Testing Service, 20 Nassau St., Princeton, N. J., no later than Jan. 2.

Summer Sessions Program Grows To Meet Expanded Requirements

As of the last week in November, a total of 547 different courses had been scheduled for one or more of the 1959 Summer Sessions.

A further breakdown of available information indicates that the total number of scheduled classes (counting each section individually) is 985.

How do these figures compare with previous years? What are the courses being offered? What types of students will benefit from this summer program?

Dr. Palmer C. Weaver, dean of Summer Sessions, says: "The University is in a transition period in its summer program. In 1959 both the number of courses and the total number of classes are greater than in recent years, looking to the time when University facilities will be in complete use year-round. The program is purposely flexible—to meet the more apparent needs of the students."

The increase in the number of courses, Dr. Weaver points out, is 28, or 5.4 percent. The increase in number of individual classes is 115, or 13.2 percent.

The 1959 program, which finds the University with five sessions instead of three as in past years, is designed to give more opportunities to all students to schedule required and elective courses.

The program in previous years provided for periods of three, six, and three weeks of study, and the middle six weeks or the "mid-session," as it is now called, attracted the most students and provided the largest number of courses. In 1959, superimposed on this sequence of classes, will be two sessions of six weeks each. As the scheduling of classes permits, students may elect to attend any session.

The Summer Sessions of 1958 provided for 229 classes in the 100-399 level of courses; in 1959, the total will be 236. In the "400" series of courses (available to undergraduate and graduate students) the total in 1958 was 214; and in 1959, about 250 will be available.

The 1959 summer program will offer most of the "basic" courses for freshmen, including Chemistry 1 and 3, English Composition 1, Mathematics 41, Accounting 1, History 20 and 21, and Psychology 2. In the first six-week session all these courses are available and in the second six-week period several courses in advance of these will be offered.

The new program is designed to accommodate recent high school graduates as well as upperclassmen.

Eventually, President Eric A. Walker has indicated, the University will be on a summer schedule as complete as that of the present regular terms. In the 1958 fall semester, the offerings total 703 undergraduate courses, 387 "400" courses, and 393 "500" courses. The

figures for the spring semester will be about the same. Between the two semesters, of course, there is some repetition of courses, so that for the year a total 996 undergraduate, 672 "400" and 622 "500" courses are being offered.

The greatest increase in courses offered for the 1959 Summer Sessions over that of 1958 occurs in the Colleges of Agriculture, Chemistry and Physics, and Education. The College of the Liberal Arts will offer the greatest number of classes during the two six-week periods.

As in the past years, it is expected that the largest enrollment of students will be in the Education courses, and that teachers will out-number all other types of students. But the expanded program will offer regular undergraduate students the opportunity to enroll to advance in their schedules, make up work, become "regular" in their programs, or to enrich their background by taking courses not normally required or elected.

Dean Weaver says: "Science majors may use the Summer Sessions for more humanities courses, and students in non-technical fields may wish to take science courses. In each case the student will broaden his education."

"Many students will find it to their advantage to accelerate their programs to graduate in three years and two or three summers. In doing so, they will get into their jobs a year earlier."

"The National Defense Education Act provides for loans to students, thus making it possible for them to be less dependent on summer employment for their education. Many students may find it desirable to take advantage of this opportunity since interest on these loans doesn't begin until the student has finished his education."

"Other students may find that summer employment is not as readily available as in previous years. They may decide to come to summer school and seek employment during one of the regular sessions when competition for jobs is not as great."

"These are only just a few of the reasons why summer sessions work may become attractive to an increasing number of students in the future."

Rimrott Granted Leave

Dr. Frederick P. J. Rimrott, assistant professor of engineering mechanics, has been granted a year's leave of absence, effective Feb. 1, to become a post-doctoral fellow at the Ecole Polytechnique, Montreal, Canada. He has been awarded a fellowship by the National Research Council of Canada to do research work in the field of pressure vessels.

Werner, Brunner Retire As Emeritus Professors

William L. Werner, who has served on the faculty for 38 years, and Dr. Henry S. Brunner, head of the department of agricultural education since 1937, will retire next month, both with emeritus rank.

Werner, whose retirement is effective Jan. 31, attended Muhlenberg College, studied also at the University of Clermont-Ferrand in France, the University of Pennsylvania, and received his master of arts degree from Penn State, after which he enrolled for additional graduate work at Columbia University.

Prior to joining the faculty in 1920 as instructor in English, Werner has taught in the high schools of Pottsville and Lebanon. During World War I he served in France with the 316th Infantry, U. S. Army.

Werner assumed much of the work in American literature when the late Fred Lewis Pattee retired in 1928 and later was named professor of American literature. He has been active as a member of the University Senate and served on the Faculty Advisory Council from 1951 until it was discontinued last year. He has been an active member of the AAUP and of the American Federation of Teachers.

In addition to contributing many papers to professional magazines, he was co-author of "A Short History of American Literature," and of the book, "Penn State Yankee." For more than 25 years he has been writing the weekly column, "The Bookworm," for the Centre Daily Times, and for the past five years a similar column for the Alumni News.

Brunner Goes to Washington

Dr. Brunner will go to Washington, D. C., after his retirement on Jan. 1 to become education research and practice specialist for agricultural instruction at the college level.

A native of Reading, Pa., Dr. Brunner received his bachelor of science and master of science degrees from Penn State and his doctor of philosophy degree from Ohio State. He served as supervisor and teacher of music in Reading while engaging in farming in Berks county. In 1930 he became supervisor of vocational agriculture at Clay Twp. high school in Berks county and in 1934 was named instructor in agricultural education in 1934 at the University. During World War I he served with the U. S. Army as a second lieutenant in the infantry.

In 1950, Dr. Brunner served as consultant in the Food and Agriculture Division of the Economic Recovery Commission in Germany and in 1955 returned to Germany on a Department of State assignment as specialist in agricultural education.

For many years he has maintained a strong interest in the Penn State-China program conducted by the late George W. "Daddy" Groff and Richard E. Pride.

Calendar

Friday, Dec. 12

Faculty meeting College of Agriculture, 4:15 p.m., Room 109, Armsby Building.
Center Stage production of "The Reluctant Debutante," 8 p.m.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. G. W. Brindley, head, department of ceramic technology, on "Studies of Some Mineral Reactions."

Saturday, Dec. 13

Christmas Carol Sing, 10:20 p.m., in front of Schwab Auditorium.

Candlelight Service, 10:55 p.m., Schwab Auditorium. Choral music by Chapel and combined Meditation choirs.

Center Stage production of "The Reluctant Debutante," 8 p.m.

Wrestling, versus Colgate, 8 p.m., Rec Hall.

Sunday, Dec. 14

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Reverend Donald Cutler.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m. Special choral music with Chapel Choir and combined Meditation Choirs. Liturgy by Dr. Luther H. Harshbarger and the Rev. Preston N. Williams.

Monday, Dec. 15

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Frank J. Simes, dean of men, on "All In A Day's Work."

Engineering mechanics seminar, 4:15 p.m., Room 203, Engineering "A."

University Christian Association Seminars, 8 p.m., Helen Eakin Eisenhower Chapel.

Faculty meeting, College of Home Economics, 4:15 p.m., Dr. Helen R. Le Baron, dean of the division of home economics, Iowa State College.

Lecture by Dr. Marvin Fox, associate professor of philosophy, Ohio State University, 8 p.m., on "Can Modern Man Find God?" at Hillel Foundation.

Mathematics Colloquium, 4:15 p.m., Room 124, Sparks Building. Dr. Roman Sikorski, University of Warsaw and the Institute for Advanced Study, on "Determinants in Banach Spaces."

Meeting of University employees, 7:30 p.m., Room 124, Sparks, to discuss further steps in formation of credit union, with Marlin J. Dean, Pennsylvania Credit Union League, as speaker.

Color Slide Club, 7:30 p.m., Mineral Industries Auditorium. Dr. Charles M. Long, head, department of education, showing slides of South America.

Tuesday, Dec. 16

Economics Faculty Seminar, 12 noon, dining room "A," Hetzel Union Building. Dr. Arthur H. Reede, professor of economics, on "New Research in Unemployment Insurance."

Festival of Lessons and Carols, The Meditation Choirs, 8 p.m., Helen Eakin Eisenhower Chapel.

Basketball, versus Gettysburg, 8 p.m., Rec. Hall

Wednesday, Dec. 17

Graduate Mining Seminar, 4:20 p.m., Room 24, Mineral Industries Building.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

Jan. 11—The Rev. Preston N. Williams, assistant University chaplain.

Jan. 18—Charles E. Minneman, assistant chaplain

CONCERTS

Jan. 13—Mozart Concert Opera Group, Artists Series

ATHLETICS

Dec. 20—Basketball, versus Colgate, 8 p.m.

Jan. 8—Basketball, vs. West Virginia

Jan. 10—Wrestling, vs. Lehigh

Jan. 10—Gymnastics, vs. Temple

Jan. 13—Basketball, vs. Bucknell

Jan. 24—Wrestling, vs. Army

LECTURES

Jan. 7—Mrs. Eleanor Roosevelt, on "Russia—The Country and the People as I Saw Them."

Schinagl Named To Head Agricultural Information

Jack F. Schinagl, of Racine, Wis., for the past six years affiliated with a mid-western agricultural advertising agency, has been named head of agricultural communication, effective Jan. 1.

He will be responsible for the coordination and operation of the various informational services of the College of Agriculture, including research, extension, and general editorial services, photography and related visual aid services, art and exhibit services, radio and television, and information distribution.

A graduate of the University of Wisconsin, with a master of science degree in journalism, Schinagl was at the College of Agriculture at the University of Wyoming from 1946 to 1952, where he organized, developed, and supervised a complete program of information. He then joined the advertising agency as an accountant executive and for the past three years has been a director and vice-president of the agency as well as manager of the Racine office and chairman of the executive committee.

Bids To Be Sought For Graduate Housing Soon

Bids will be sought for the construction of 216 apartment units on east campus to provide housing for married graduate students.

The two-floor, residential type frame structures, with brick exterior veneer walls will be the first phase of a project to attract top graduate students. At least some of the units, it is hoped, will be ready for occupancy by late 1959 or early 1960. Early spring has been designated as the target date for construction to start.

The units, which like all housing on campus will be on a self-amortizing basis, represent a part of a construction program of housing and dining facilities made possible by a Federal loan of \$10,000,000 and \$13,500,000 in borrowed funds.

Special Dinner, Hours Announced At HUB

A special candlelight dinner will be served in the Terrace Room of the Hetzel Union Building on Monday, Dec. 15, from 5 to 6:30 p.m. The dinner will feature roast turkey with chestnut dressing, veal steak, ham cutlet with wine sauce, and French meat loaf with cheddar cheese sauce. Christmas candies will be provided for children.

The Hetzel Union Building will be closed from 8 p.m. on Dec. 23 until Jan. 2 with the exception of the main desk which will observe hours of 8 a.m. to 5 p.m. Dec. 29-31. The HUB will be open from 8 a.m. to 8 p.m. on Dec. 20-23 and Jan. 2 and 3.

The Lions Den and the Grill will close at 1:30 p.m. on Dec. 20 and reopen at 11:30 a.m. on Jan. 4. The Terrace Room will close on Dec. 23 at 6:30 p.m. and reopen at 11:30 a.m. on Jan. 2.

Chicago Professor Named Head of English Department

Dr. Henry W. Sams, director of the Summer Quarter for the past six years and former chairman of English in the College of the University of Chicago, has been named professor and head of the department of English, effective July 1.

A native of Clarksville, Va., Dr. Sams received his bachelor of arts and master of arts degrees from Oberlin College and his doctor of philosophy degree from the University of North Carolina.

He served as graduate fellow at Oberlin, graduate assistant at Syracuse, and teaching fellow at the University of North Carolina before being appointed instructor in English at Oberlin in 1936. He was instructor at the University of North Carolina in 1939-40 and assistant professor at The Citadel and Queens College later.

Following service with the U. S. Navy during World War II, Dr. Sams was named assistant professor of English at the University of Chicago in 1946 and was chairman of English from 1946 to 1951. He has been associate professor of English since 1949 and has directed the Summer Quarter since 1952.

Author of numerous papers in professional journals, he is co-author of three books on reading and writing and earlier this year published the book, "An Autobiography of Brook Farm, N. Y."

German Christmas Sing Tuesday

The 29th annual Christmas Sing, sponsored by the department of German, will be held at 8 p.m., Tuesday, Dec. 16, in Schwab Auditorium.

In addition to the traditional singing of well-known German Christmas carols and the reading of the account of the nativity by George J. Wurfl, professor emeritus of German who established the series, there will be additional music, a short talk, and a skit.

Mary J. West, soprano, and William Reeves, baritone, will sing a duet accompanied by Mary Ann Frazier, oboe, and Edwin W. Gamble, piano.

Richard J. Browne, professor of German, will give a short talk, "The Star of Bethlehem" and the skit, "The First Christmas Tree," will be presented by members of the fifth grade German class at the Nittany Ave. School.

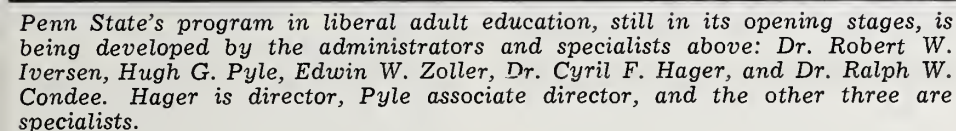
Marion Berry and Gamble will play a sonata for flute and piano, and George E. Ceiga, University organist, will be at the organ.

Religious Education Subject Of Telecast

Dr. Luther Harshbarger, University chaplain, and Dr. Michael Chiapetta, associate professor of education, will discuss religious education on the weekly "Penn State: Its Men and Ideas" telecast over WFBG-TV next week.

The program is seen at 9:50 a.m. on Monday, Wednesday, and Friday.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.



UNIVERSITY OF MICHIGAN STATE COLLEGE

Senate Minutes

MINUTES OF THE MEETING OF DECEMBER 4, 1958

The University Senate met at 4:10 p.m. on Thursday, December 4, 1958, in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the November 6 meeting were approved as printed in the Faculty Bulletin for November 21, 1958. 171 senators signed the roll.

Communications from University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: E. P. Strong (Alice Warne), D. V. Josephson (F. J. Doan), E. T. Williams (W. A. Lloyd), Hummel Fishburn (G. W. Henninger), B. L. Snavely (P. M. Kendig), Ossian Mackenzie (Rocco Carzo), D. E. Hardenbergh (Walter Jaunzemis), B. E. Lethbridge (W. M. Hench), E. R. Quer (E. R. McLaughlin), J. H. Britton (Alberta Siegel), G. R. Kean (G. W. Sherritt), F. W. Peikert (H. D. Bartlett), and R. D. Pashek (O. D. Bowlin).

New Senators

From the College of Education, Lyman Hunt elected for the 1958-60 term to replace P. W. Bixby who is an ex officio member of the Senate as assistant dean for extension.

From the College of Engineering and Architecture, C. J. Smith elected for the term of 1958-59 to replace F. T. Hall who is an ex officio member of the Senate as acting head of the department of Electrical Engineering.

From R. G. Bernreuter, Special Assistant to the President for Student Affairs, the following:

At the Student Encampment, the matters of (a) the removal of penalties on upperclassmen for class cuts, and (b) exemptions from final examinations, were given consideration. Modifications of rules to effect such changes were recommended by the Encampment to the All-University Cabinet. On 10/16/58, the All-University Cabinet considered the recommendations and decided to give them support. Subsequently, Jay Feldstein, All-University President, forwarded the recommendations to me for consideration by the Senate.

President Walker referred this communication to the Senate Committee on Academic Standards.

From D. H. Ford, Acting Director of the Division of Counseling, a proposal for a change in Rule P-21 of the Regulations for Undergraduate Students, 1958-59. The present rule is as follows:

A student enrolled in the Division of Counseling shall remain enrolled therein for one semester. With the approval of the Director of the Division, enrollment may be continued for a second semester. A student not approved by the Director of the Division for a second semester and not accepted by the Dean of a College, or a student not accepted by a Dean of a College at the end of two semesters in the Division, shall be dismissed from the University for unsatisfactory scholarship.

The proposed revision reads:

Subject to the approval of the Director of the Division of Counseling, a student may enroll in that Division for no more than two semesters beyond the freshman year.

The proposal, along with a letter describing the background for the action, was referred to the Senate Committee on Academic Standards with the directive that the Committee report back to the Senate at the January meeting. The letter is on file in the office of the secretary.

Reports of Standing Committees

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A" and moved its adoption. The motion was seconded. H. H. Chisman questioned item 73, a new course Engl 300. After an explanation by Mr. Shelley, the motion was passed. The report is on file in the office of the secretary.

E. P. Nye, Chairman of the SENATE COMMITTEE ON STUDENT AFFAIRS, presented the report which had been distributed with the agenda as Appendix "B" and asked that the following words be inserted after the word "curriculum" in the third line:

by the Senate Subcommittee on Discipline
He moved the adoption of the proposed Rule A-9. The motion was seconded. The proposed Rule A-9 reads:

A student who has been suspended from the University for disciplinary reasons shall be reinstated in the University and in his curriculum by the Senate Subcommittee on Discipline when the period of his suspension is completed. A student under suspension is not immune from drop action under the P-rules, however.

Lawrence Perez objected to the proposal since it took the responsibility of reinstating the student out of the hands of the Dean of the College. He moved that the report be amended as follows:

A student who has been suspended from the University for disciplinary reasons shall be reinstated in the University and in his curriculum by the Senate Subcommittee on Discipline UPON THE RECOMMENDATION OF THE DEAN OF THE COLLEGE CONCERNED when the period of his suspension is completed. A student under suspension is not immune from drop action under the P-rules, however.

The motion was seconded. After considerable discussion on the amendment a motion to table the action on the amendment was defeated. The motion to adopt the amendment was defeated. The motion to adopt the new Rule A-9 was passed.

President Walker asked the Committee on Student Affairs to prepare a list for the Senate, and for inclusion in the student regulations, of the kinds of actions which can be taken to enforce student regulations. Mr. Nye said that such a list was being prepared and would be available before long.

R. E. Larson, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report which had been distributed with the agenda. He stated that the word "class" in line four of item one should be "course." He then moved that the report be adopted as corrected. The motion was seconded and passed. The report is as follows:

1. It shall be the policy of The Pennsylvania State University to encourage learning among its students by authorizing their attendance at any class, with the permission of the instructor, even though they are not officially enrolled in the course for credit or for audit.
2. The committee also recommends that the privilege of attending any class, as described above, should be extended to all University personnel, subject to the regulations governing their individual employment.

NOTE: If item 1 above is adopted, it will require the revision of Rule I-10 in the Senate Regulation for Undergraduate Students.

New Business

R. W. Brewster presented a proposed change in the By-Laws, Article II, Section 1 and Section 2, as follows:

Article II, Section 1.

Add: (m) Faculty Affairs, one elected member from each of the Colleges and the Graduate School.

Change: Change present subsection designation from "m" to "n."

Article II, Section 2.

Add: (m) Faculty Affairs — It shall be the general responsibility of the Committee to represent the faculty interest in professional standards and welfare, to receive suggestions and complaints from the faculty for consideration and disposal through proper administrative channels, and to advise the Senate on needed legislation.

Change: Change present subsection designation from "m" to "n."

Mr. Brewster moved that this proposal be received and that it be referred to the Committee on Rules with instructions to report at the February meeting of the Senate. President Walker referred this communication to the Senate Committee on Rules for action at the February meeting of the Senate.

Comments and Recommendations for The Good of the University

W. G. Mather suggested that the Senate Minutes be printed on an insert in the Faculty Bulletin so that they could be filed as such, since there are often times when other items of filing interest are printed on the reverse side of the minutes.

President Walker stated that he has asked the Controller to consider the preparation of a plan for a new kind of faculty contract to include both regular year and summer school employment. Such a plan might provide for a multiplicity of agreements covering various periods of employment within a single calendar year. The purpose of the new plan would be to insure greater stability of employment for the faculty member.

The President also mentioned that budget hearings will be held in Harrisburg next week. He stated that he will make a report to the faculty following the Christmas holiday.

The next regular meeting of the Senate will be on January 8, 1959 in Room 121 Sparks Building. The agenda will be distributed on December 18, 1958. The meeting adjourned at 4:52 p.m.

Robert G. Bernreuter
Secretary

Assistant Dean For Extension In Home Economics Is Named

Edna E. Sommerfeld, district extension supervisor at Michigan State University, has been named assistant dean for extension in the College of Home Economics and professor of home economics.

Dr. Ruth R. Honey, director of home economics research, has been named assistant dean for research in the College, and will continue also as professor of family economics and housing.

Delpha E. Wiesendanger, who has been assistant dean in charge of field services and the buildings, will continue to be responsible for the physical facilities of the College and will continue as head of the department of home management, housing, and home art and as chairman of the division of home management, family economics, housing and home equipment.

Miss Sommerfeld is a graduate in home economics at North Dakota Agricultural College, with a master of arts degree from Teachers College at Columbia University. She has completed additional work at Utah State College, Cornell University, University of Maryland, Clark University, and Michigan State. She has held posts at North Dakota, Vermont, and Cornell, in addition to Michigan State.

Announce Appointments To Agriculture Staff

Fred W. Knipe, who has been a public health engineer with The Rockefeller Foundation in various parts of the world for the past 28 years, has been appointed senior research associate of agricultural engineering.

Dr. Helmut Daniel, who received his doctorate in organic chemistry from the University of Berlin earlier this year, has been named research associate in agricultural and biological chemistry.

Knipe is a graduate of Penn State in agronomy and from 1920 to 1930 was on the faculty of the University of Connecticut. In his work with the Rockefeller Foundation, he was concerned with the engineering phases of malarial control.

Dr. Daniel is a graduate of the University of Darmstadt and the University of Bingen and his research has been concerned with sulfolipids.

Library Hours Announced

The Pattee Library will observe the following hours during the Christmas recess:

Sat., Dec. 20—7:50 a.m. to noon
Sun., Dec. 21—Closed
Mon., Dec. 22—9 a.m. to 5 p.m.
Tues., Dec. 23—9 a.m. to 5 p.m.
Wed.-Sun., Dec. 24-28—Closed
Mon.-Wed., Dec. 29-31—9 a.m. to 5 p.m.
Thurs., Jan. 1—Closed
Fri., Jan. 2—9 a.m. to 5 p.m.
Sat., Jan. 3—9 a.m. to noon
Sun., Jan. 4—Closed

Better Students Enrolled Counseling Study Indicates

ALTHOUGH for the period from 1951 to 1958 the freshman classes at Penn State have significantly improved in terms of their academic potential, accomplishment of students at the University as measured by grades has shown no improvement in recent years.

Dr. Donald H. Ford, acting director of the Division of Counseling, reporting on a study conducted by the Division, says that freshmen entering Penn State this year are better students potentially than were those of seven years ago as measured by two different yardsticks.

"The yardstick by which most freshmen were admitted—ranking in high school graduating class—shows clearly that Penn State is getting more good students every year," Dr. Ford says.

The table below shows the percentage of freshmen (on all campuses) of the 1951, 1954, and 1958 classes by high school ranking.

High School				
Fifth	1951	1954	1958	
1	35.3%	36.0%	41.0%	
2	26.2	30.5	34.0	
3	20.6	21.4	16.0	
4	10.2	7.7	7.0	
5	6.2	3.5	2.0	
no rank	1.2	0.9	.	

"It will be observed that in 1951, the total of students in the upper two-fifths represented 61.5 per cent; in 1958 they represented 75 per cent," says Dr. Ford.

The second yardstick—scores on aptitude tests—shows that the high school graduates in general are potentially better, as indicated by the results of University aptitude tests taken by the freshman classes of 1951, 1954, and 1958. The table below shows the mean scores of those classes with the students' high school ranking:

High School				
Fifth	1951	1954	1958	
1	131.5	134.0	140.2	
2	116.0	117.6	124.2	
3	107.6	111.8	122.8	
4	107.7	129.4	123.4	
5	99.0	127.3	122.1	
Total	118.4	123.7	130.4	

Grades at Penn State

On the other hand, results of studies of grade distributions at Penn State for the years 1953, 1955, and 1958 Spring Semesters indicate that there has been no significant change in the percentages of A, B, C, D, and F grades, as the table below shows:

Grade	1953	1955	1957
A	19.5%	19.7%	20.0%
B	36.2	35.1	35.6
C	29.0	30.1	29.0
D	10.8	11.1	11.0
E	4.5	4.0	4.4

Scholastic Actions

A study of the drop and other scholastic actions taken against students in the Spring Semesters of 1954 and 1958 indicates that the percentage of academic dismissals increased while the

total of dismissals and probation remained the same as shown in the table below:

1954		1958	
Drops	All Actions	Drops	All Actions
4.0%	16.7%	6.2%	16.5%

A similar study for the freshman classes of 1953 and 1957 shows the following percentages:

1954		1958	
Drops	All Actions	Drops	All Actions
6.1	29.5	12.2	27.2

Dr. Ford points out that between 1954 and 1958 the University raised its requirements for graduation to a "C" average. A new set of drop and probation rules was developed to implement this change. The effect of the new rules has been to increase the percentage of freshmen dismissed at the end of their first year by 100 per cent. The new rules, he says, clearly represent a more rigorous set of standards.

Dr. Ford notes also that for the past several years the all-University average of the entire freshman class at the end of the freshman year has changed little: in 1954, the average was 2.15; in 1955, 2.15; in 1956, 2.15; and 1957, 2.04.

In one category, Dr. Ford notes, are the classes improving. A somewhat higher percentage of the freshman class of 1954 registered for work in the senior year than did the class of 1951; but the increase from 47.1 per cent to 48.3 per cent is slight.

"The basic questions raised by these data would seem to be," Dr. Ford asks, "under what conditions should the University expect students' grades to improve, academic dismissals and probations to decline, and a greater proportion of each entering class to graduate, as the quality of students being admitted to Penn State improves?"

Mark Sensing Equipment Installation This Month

Acquisition of equipment for mark sensing of IBM cards has been announced by Dr. Donald T. Laird, in charge of Computation Services. Delivery of this equipment, to be installed in Room 101 Boucke Building, is expected late in December.

In typical applications of mark sensing, experimental observations are recorded as they are made by making pencil marks on IBM cards. These cards can be processed directly by the new equipment, thus avoiding the usual key punching operation.

The Computation Services facility is available for instructional and research use by all departments of the University. Anyone planning a project in which mark sense cards or other card operations might be useful is invited to contact Dr. Laird or Mrs. Anna Wink, Ext. 723 to discuss the application.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

Jan. 11—The Rev. Preston N. Williams, assistant University chaplain.

Jan. 18—Charles E. Minneman, assistant chaplain

CONCERTS

Jan. 13—Mozart Concert Opera Group, Artists Series

ATHLETICS

Jan. 9—Finnish gymnastics competition and exhibition.

Jan. 10—Wrestling, vs. Lehigh

Jan. 10—Gymnastics, vs. Temple

Jan. 13—Basketball, vs. Bucknell

Jan. 24—Wrestling, vs. Army

LECTURES

Jan. 7—Mrs. Eleanor Roosevelt, on "Russia—The Country and the People as I Saw Them."

Jan. 13—Distinguished Lecture Series in Philosophy, by Dr. Leo Strauss, professor of philosophy, University of Chicago.

Items of Interest

Dr. J. B. Washko, professor of agronomy, and Dr. H. B. Sprague, head of the department, were elected to important posts in the American Grassland Council recently, Dr. Washko as president and Dr. Sprague as a member of the board of directors. . . . Dr. Joseph Marin, head of the department of engineering mechanics, presented a paper on "Determination of the Creep Deformation of a Rivet in Double Shear," at the meetings of the American Society for Mechanical Engineers recently.

Donald E. Hardenbergh, associate professor of engineering mechanics, presented a paper on "Stresses in Contoured Openings of Pressure Vessels," before the joint meeting of the Power and the Applied Mechanics divisions of the American Society of Mechanical Engineers last week. . . . David M. Myers, research assistant at the Ordnance Research Laboratory, has been issued a patent for a torpedo hub nut, designed to facilitate the attachment of a parachute to the tail of a torpedo.

Dr. Luke T. Lee, assistant professor of political science, is author of a legal paper, "Toward a Uniform Customs Exemption for Consular Officers" published in the current issue of "International and Comparative Law Quarterly." . . . Dr. Alberta Engvall Siegel, associate professor of child development, will serve as consulting editor for the "Child Development Journal" for the next two years. . . . Dr. Leo H. Sommer, associate professor of chemistry, was recently elected an active member of The New York Academy of Sciences.

Senate Meets Jan. 8

The University Senate will meet on Thursday, Jan. 8 at 4:10 p.m. in Room 121, Sparks Building.

Calendar

Saturday, Dec. 20

Classes end, 11:50 a.m., for Christmas recess.

Tuesday, Dec. 23

Offices close at 5 p.m. for Christmas holidays.

Monday, Dec. 29

Offices reopen, 8 a.m.

Thursday, Jan. 1

Offices closed all day.

Monday, Jan. 5

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. C. S. Wyand, vice-president for development.

American Statistical Association, State College chapter, meeting, 5 p.m., Room 201, Willard Building. Dr. H. A. Panofsky, professor of meteorology, on "Power Spectrum Analysis."

Tuesday, Jan. 6

Statistical Computation Workshop, 4:15 p.m., 105 Forestry. Analysis of variants.

Thursday, Jan. 8

Graduate Mining Seminar, 4:20 p.m., Room 24, Mineral Industries.

University Senate meeting, 4:10 p.m., Room 121, Sparks.

Vesper Service, 4:15 p.m., Helen Eakin Eisenhower Chapel. Father Gerald J. Ream will lecture on Roman Catholic Mass.

Poultry Diagnostic Laboratory Is Moved

The Poultry Diagnostic Laboratory, which has been housed in the Veterinary Science Building, has been moved to the Poultry Disease Building of the Veterinary Research Center on the University farms.

The Veterinary Science Building will continue to be used for the offices of the department of veterinary science and the teaching and extension staffs of the department.

The telephone numbers of Dr. Stephen Gordeuk, Jr., and Dr. George R. Bush have been changed to AD 8-8812.

Dr. English's Library Acquired By University

The library of the late Dr. P. F. English, who served on the faculty as professor of wildlife management for 20 years until his death on Oct. 8, has been acquired by the University.

The collection includes several hundred books and several thousand bulletins, pamphlets, and periodicals. It will remain in the wildlife management office in the Agricultural Education Building as a working collection for graduate students and faculty.

Two Old Books Presented To Agricultural Library

Two old books have been presented to the Agricultural Library by Thomas S. Downing, of RD 2, Coatesville, at the suggestion of his son Roger, who received his bachelor of science degree in agronomy in 1951.

The books are "The Complete Farmer, or a Dictionary of Husbandry," published in London about 1793 by A Society of Gentlemen.

The second book, published about 1800, is entitled "A Compleat Body of Husbandry."

Leaves Of Absence Announced For Six

Leaves of absence have been granted the following faculty members:

David R. Mitchell, chairman of the division of mineral engineering, Feb. 1 to July 31, 1959, to work on the third edition of his book, "Coal Preparation," make special studies, and travel.

John W. Breneman, professor of engineering mechanics, Feb. 1 to June 30, 1959, to revise his two textbooks, "Mechanics" and "Strength of Materials."

Donald W. Davis, professor of journalism and head of the department of advertising, Sept. 1, 1959 to Jan. 31, 1960, to revise his textbook, "Basic Text in Advertising."

George M. Dusenberre, professor of mechanical engineering, Feb. 1 to June 30, 1959, to revise his book, "Numerical Analysis of Heat Flow," and to travel.

Nicholas M. Stepahin, assistant county agricultural agent in Allegheny County, Feb. 1, 1959 to Jan. 31, 1960 to do graduate work at Penn State.

Miss A. Pauline Locklin, professor of English literature, Feb. 1 to June 30, 1959, to go to Great Britain to do research on the poetry of Edmund Spenser.

Dr. Henry Hiz, assistant professor of mathematics, Spring Semester, 1959, to take part in a project on linguistics at the University of Pennsylvania sponsored by the National Science Foundation.

Bell To Be Honored By Memorial Scholarship

Pennsylvania newspapermen, educational public relations personnel, and Penn State alumni have joined in a drive to finance a scholarship in the memory of Louis H. Bell, for 15 years director of public information prior to his death in October.

H. Eugene Goodwin, director of the School of Journalism, said that a journalism scholarship was considered the most fitting memorial to Bell because of Bell's "deep and abiding interest in young people and his utter devotion to the profession of journalism."

Artists Series Tickets On Sale Jan. 12 At HUB

Tickets for the Artists Series program by the Mozart Concert Opera Group will be distributed to the general public beginning on Jan. 8 at 9 a.m., at the Hetzel Union Building desk.

The Group will hold an open rehearsal on Monday, Jan. 12, prior to actual performance on Jan. 13. Free tickets to this performance will be distributed on a first-come, first-served basis to students and general public alike. The rehearsal will be held in Schwab Auditorium and the doors will be opened to ticket holders at 8:15 p.m.

The sale of tickets for the actual performance on Jan. 13 will be held on only Jan. 8 and 9, and are priced at \$1.25.

Adult —

(Continued from page one)

Altoona, and Erie, with 126 discussion leaders in attendance.

Undoubtedly the enthusiasm for the program among the local people will determine its success. A key person in each community is he who does the actual promotion. In Scranton, Mrs. Helen Ericson, member of the Scranton Center Advisory Board, in York, Mrs. Zoe Meisenhelder, and in Harrisburg Mrs. Edna Hargest, well known community leader have all been instrumental in the initial success of their program. Credit too, is due the administrative heads of the various centers and campuses for their efforts.

What is there in it for the participants? Quoting from the brochure available to explain the program: "There is a place in the group for you to build upon your own mature experience, join a fascinating exploration of the world of ideas, and enjoy all the excitement of self-discovery while you develop your ability to think independently and critically, gain new leadership skills, and enrich your circle of congenial and interesting friends."

The FAE grant which made the program possible is for five years. Until the five years are up no decision can be reached on whether adults in the State want to meet the goals cited in the brochure.

"We aren't certain at this stage," says Dr. Hager, "whether this is the primary method to develop liberal adult education. We are sure to do much experimenting. But at least the opportunity is here for men and women to enrich themselves in subjects of their own choosing."

Freund Granted Leave

Dr. Ernest H. Freund, professor of philosophy, has been granted a leave of absence from Feb. 1, 1959 to Jan. 31, 1960 to serve as director of an international relations program to be established for students and faculty at the Free University of West Berlin.

Sponsored by the American Friends Service Committee and Mittelhof, a private German social and educational agency, the program is designed to bring persons from many countries together through lectures, discussions and special study programs.

While abroad, Dr. Freund expects to study recent developments in philosophy and theology in Germany and other European countries and to visit a number of European universities.

Tickets For Lecture By Mrs. Roosevelt Given Jan. 5

Tickets for the lecture by Mrs. Eleanor Roosevelt on Wednesday, Jan. 7 will be distributed, free of charge, at the main desk of the Hetzel Union Building on Monday, Jan. 5 beginning at 9 a.m.

Only one ticket will be given to a person. The lecture will be held in Schwab Auditorium at 8 p.m.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 313 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 313 Old Main.

Students Newspapers Operate Without Censorship—Goodwin

STUDENT newspapers on many university campuses operate without controls from faculty and administration because they are primarily designed to represent the *student* point of view, says H. Eugene Goodwin, director of the School of Journalism.

In his experience, which includes personal contact with the student newspaper at the University of Iowa and knowledge of newspapers at a dozen other colleges, Goodwin has found that censorship is virtually non-existent on college campuses.

"There doesn't seem to be any precise pattern of administering college newspapers," Goodwin says, "but the majority seem to operate on the theory that the student editors should have as much freedom as possible — even the freedom to make mistakes."



GOODWIN

Here at Penn State, The Daily Collegian is operated by a student staff responsible to a 12-member Board of Directors of Collegian, Inc. There is no direct faculty supervision, although two members of the Journalism faculty serve as advisors to the business and editorial staffs. The Board each spring selects the editor, managing editor, business manager and local advertising manager.

Student representation on many college newspaper publishing boards is obtained through direct vote of the student body, Goodwin learned on a tour of journalism schools in the midwest last summer. At Penn State, students are represented on the Collegian Board by the All-University president, Women's Student Government Association president, the presidents of the junior and sophomore classes, and the editor and business manager of Collegian.

The faculty and administration are represented on the Collegian Board by

Goodwin, who is vice-president; Richard O. Byers, associate professor of journalism; and John D. Vairo, instructor in journalism (the two advisors). These three directors serve by virtue of their positions.

In addition, James H. Coogan, director of public information, president of the Board; and two others—Dr. Merritt A. Williamson, dean of the College of Engineering and Architecture, and Dr. Michael Chiappetta, associate professor of education—serve on the board by appointment of President Walker. William F. Fuller, manager of Associated Student Activities, sits on the board as an ex-officio member and treasurer.

"An arrangement such as this is not unique on college papers," Goodwin says, "but neither is it common."

The Collegian is closer to being a student newspaper than it is a journalism laboratory, Goodwin points out. Many staff members are non-journalism majors.

"While Collegian certainly provides good training for potential newspaper staff members," Goodwin says, "such training is not the main goal. In other words, there would be justification for a student newspaper even if there were no School of Journalism."

Collegian, like papers at many other colleges and universities, comes in for its share of criticism from both students and faculty members. Such criticism, common to daily newspapers, is considered healthy and is taken quite seriously by the staff.

"Collegian staff members occasionally make mistakes, but I think they learn from them when they do," Good-

win says. "They take their responsibilities much more seriously than is generally believed."

"Collegian is not an official publication of the University in the sense that the Faculty Bulletin is, but most outsiders, and many here on campus, fail to understand that distinction. The Collegian, like most other student newspapers, is not an official voice of the University."

"This does not mean that the student newspaper doesn't have a responsibility to the University community it serves. I think that the Collegian staff understands this responsibility, and understands also that freedom and responsibility go hand-in-hand."

The question is raised on nearly every campus about the responsibility of the student newspaper. Does it mirror or shape student opinion?

"Invariably it does both," Goodwin says. "I don't feel that the Collegian staff can be expected to feel the student pulse before it takes a stand on an issue."

"In the first place, there are many issues on which the students become informed principally through the paper. Secondly, the staff is frequently the best-informed group on the campus. Thirdly, the staff certainly has a right to express an opinion so long as it is made clear that the opinion is that of the staff. If others disagree with the editorials, they have the privilege of saying so in the 'Letters to the Editor' column."

Goodwin says he thinks Collegian critics ought to keep in mind that students give up most of their free time to put out the newspaper.

"The imperfections cannot be blamed on any lack of 'college try,'" the journalism director emphasizes.

"Another thing critics should remember," he says, "is that there is a complete turnover of Collegian editors and top business staff members each year. This accounts for the variation in quality that sometimes occurs from year to year."

"Without meaning to underemphasize the importance of Collegian as a

(Continued on page four)

Walker Discusses Teachers' Code

(The following is the major portion of the talk by President Eric A. Walker given in a panel discussion at the Association of American Colleges in Kansas City, Mo., on Jan. 7. The theme of the panel discussion was "A Professional Code Worthy of the Academic Profession," and of Dr. Walker's talk, "A Matrix for Excellence.")

Any professional code for the academic profession must be based on the acceptance of important responsibilities for both professional competence and professional morality. Viewed from this perspective, new light, I think, is thrown on some of the most troublesome problems involving faculty-administration relationships. I should like to discuss very briefly some of these.

Take, for instance, our tenure policies. To the extent that these have accomplished their original objective—the protection of the teacher's responsibility to search for and teach the truth—it has served a truly professional purpose. Extended to cover job security, it runs afoul of another important faculty responsibility—the professional responsibility to monitor the quality of its own membership. It is patent, I think, that the faculty cannot "join hands with the administrators in replacing mediocrity or worse with dedicated competence," to quote from the January 1958 report of the Commission on Academic Freedom and Tenure, while insisting on continuous tenure for all who manage to survive a seven-year probationary period. You cannot join hands when they are tied behind your back.

It is clear, then, I think, that we need to take a new look at our tenure regulations—a look designed to protect the professionally legitimate aspects of tenure and yet make it possible for the faculty to discharge effectively its responsibility to guard the quality of its own membership.

Further, if faculties are to assume the responsibility for professional competence, they must also assume responsibility for establishing standards by which that competence can be measured. We must recognize here that some sort of evaluation will have to be made of the teacher's work. Some teachers will be hired; others will not. If the probationary period is to mean anything, someone will have to decide on some sort of basis who will—and who will not—be granted tenure. Unless raises and promotions are to be based solely on seniority, someone will have to determine who does—and who does not—get them. Most basic of all, without some sort of mechanism for evaluating faculty competence, the responsibility for protecting the quality of the faculty cannot possibly be discharged. The only real questions involve who should determine the criteria for judging faculty performance and to what use the resulting evaluations should be put.

The responsibility for establishing

the criteria by which their work is measured, it seems to me, rests clearly with the faculty. The administration should assume primary responsibility in this area only through default by the faculty. And I further think that the results of evaluations based upon these standards should be used not simply to determine tenure status and retention but also to reward merit. If we are to attract the best minds to the academic profession, we will have to make it possible to reward excellence. We cannot protect quality simply by eliminating the ineffective; we must also reward the unusually effective.

Concern with academic competence, if nothing else, involves the faculty responsibly with the academic affairs of the institution. Curriculum, for example, is a primary faculty responsibility, and the continued fragmentation of the curricula in our colleges and universities is only one indication of faculty failure in accepting its responsibilities in this area. Other such matters include calendar revisions, effective programs of educational experimentation, the designing of truly significant service and general-education courses, and the like.

Of particular interest in this area is the matter of teacher education. If the colleges of education have gone too far in stressing methods, as many critics would have us believe they have, the rest of us have done far too little in this matter. We spend all our time teaching a discipline—mathematics, literature, social science, or what have you—and none of it teaching how to teach. Nor is the beginning teacher normally given any direct help in acquiring effective teaching methods after he joins the faculty. For the techniques of one of his two principal jobs—the job of teaching students—he must depend upon what he learned from the examples afforded him by his subject-matter teachers and what he can learn through trial-and-error methods in his own classroom. This, it seems to me, is a gross violation of the academic profession's responsibility to protect the quality of its own membership.

Finally, if the academic profession is to protect the academic freedom so necessary for discharging the responsibility to search for and teach truth, it must protect itself from academic license. A faculty member's competence lies in one particular discipline. In other disciplines, he is no more qualified than any informed layman. Those outside a college or university, however, cannot be expected to be sensitive to this distinction. When a member of a faculty of an institution of higher education speaks, on whatever subject, it is generally assumed that he speaks as an expert for the institution. Because of this, the individual professor must accept, as a personal responsibility, the obligations (1) to make it abundantly clear when he is speaking

for the institution and when he is speaking as an individual, (2) to make it equally clear when he is expressing opinions in his particular field of competence and when he is taking advantage of his privilege as a citizen to express an opinion about a topic on which he is not necessarily well informed, and (3) to present evidence on both sides of a controversial question or on a question involving social values or judgments. He should, in short, recognize the limitations of his knowledge in order to avoid abusing his privileged position. Further, the profession at large should assume the responsibility of protecting itself from abuses of academic freedom. The faculty is obligated by the freedom it claims.

These are grave responsibilities. They are extremely difficult ones to discharge. But any really professional code for the academic profession must take them into consideration. If the profession rises to this challenge, I have no doubt whatsoever but that it and its individual members will be granted the rights and privileges that stem from professional status.

Items of Interest

• Lectures

O. E. Lancaster, engineering education, "Gas Turbine Progress Report—Aviation," American Society of Mechanical Engineering meeting.

W. C. Fernelius, chemistry and chemical engineering, "General Trends in the Stability of Coordination Compounds," under sponsorship of American Chemical Society, in North Carolina, Virginia, South Carolina, and Florida, within next few weeks.

• Elected or Appointed

A. W. VanderMeer, Education, adviser to Educational Policies Commission, National Education Association.

R. H. Wherry, Commerce, consulting editor for forthcoming life and health insurance handbook of Richard D. Irwin, Inc.

J. W. Dunlop, music education, guest conductor, all-state bands in Florida, Maryland, Pennsylvania within next few weeks.

L. E. Adams, entomology extension, vice-chairman, extension section, Entomological Society of America.

• Articles and Papers

H. H. Chapman, Jr., Romance languages, book review of Begue and Franck's "Au pays du soleil," Modern Language Journal.

R. G. Weaver, English, "To Get and Keep Skilled Workers," Personnel Journal, December issue.

F. H. Cook, business law, "Capital Needs of Electric Power," Public Utilities Fortnightly.

Harrison Kane and J. H. Moore, civil engineering, "Circular Columns Analyzed by 'Cracked-Section' Method," Civil Engineering, December issue.

Open Classes In Effect After Senate Action

To encourage learning among students, the University Senate has revised its rules to make it possible for a student to attend a class or classes even though he is not officially enrolled in the course.

The rule stipulates only that the student must obtain permission to attend the class from the instructor of the course.

Under former rules, no person not officially enrolled in the course was permitted to attend any class.

President Eric A. Walker describes the rule change as "one of the most important" at Penn State in many years. He said:

"The new Senate rule can have a tremendous influence on the Penn State faculty and student body by contributing significantly to the improvement of the academic atmosphere at University Park.

"We have many distinguished professors who are now known only to the students enrolled in their classes. The new regulation will permit other students to hear these professors and to share the excitement of their lectures.

"In this way, the rule will permit our professors to stimulate, encourage, and broaden the intellectual life of a far greater portion of our student body than they could in the past.

"It will permit each student to achieve for himself a broad, informal general education program directed by his own interests. It will enable him to explore stimulating fields of intellectual discipline foreign to his major studies.

"Because of these advantages, I think this is one of the most important rule changes at Penn State in many years."

The new rule was adopted at the December meeting of the Senate and went into effect immediately.

Farm Show Next Week Again Has University Aid

Penn State will again be well represented at the annual Pennsylvania Farm show next week at Harrisburg.

President Eric A. Walker will head the delegation. Members of the Farm Show Commission include Lyman E. Jackson, dean of the College of Agriculture; H. R. Albrecht, associate dean and director of agricultural and home economics extension; Leland H. Bull, assistant director of extension; and William L. Henning, State Secretary of Agriculture, on leave from his position as head of the department of animal husbandry.

The Farm Show runs from Jan. 12 to Jan. 16, and many faculty and staff members will serve in a wide variety of capacities for the show.

Patent Attorney's Services Available To Faculty

Thomas E. Sterling, patent counsel for the Ordnance Research Laboratory and the University, advises faculty members that the services of his office are available to them for consultation on all matters related to patents, trademarks, or copyrights.

The patent department prosecutes patent applications in connection with government-sponsored research and counsels University-sponsored research activities in cooperation with the Research Corporation of New York.

"We can," Sterling says, "advise whether a development is patentable, show how to keep proper records of invention, assist in securing copyrights and trade-marks, and counsel as to proper legal procedures.

Sterling is licensed to practice before the New York State and District of Columbia bars and is registered to practice before the U. S. Patent Office bar. A graduate of Massachusetts Institute of Technology with a bachelor's degree in industrial engineering and of the University of Cincinnati in electrical engineering, Sterling was granted the L.L.D. degree by George Washington University in 1954. He has also taken special studies in chemistry at the University of Rochester.

Prior to coming to Penn State last year, Sterling had engaged in private practice in Niagara Falls, N. Y. in both patent and general law, had served as assistant supervisor in the patent department of the Olin Mathieson Chemical Co., Niagara Falls, and was patent attorney for the Ingersoll Rand Corp.

Two patents were issued to Ordnance Research Laboratory personnel recently and Sterling is now helping many faculty members in the preliminary stages of patent applications. Among these are Dr. T. Cheng and Ralph E. Patterson, professor of agricultural engineering extension, for a device for spraying cattle with insecticides; Dr. Paul Margolf, professor of poultry husbandry, for a shocking device for killing poultry; and Dr. G. J. Stout, research associate in the Engineering Experiment Department, for a device for improving heating systems in homes.

Sterling emphasizes that consideration of a patent should take place early and that all materials relative to establishing the date of conception should be filed in case of claims against the patent later.

Bovard Estate Gives \$10,000 For Books

The Library has received an endowment of \$10,000 from the estate of the late Roy Laurens Bovard, class of 1907, who had previously made regular contributions of books and money toward "The Bovard Renaissance Collection," for a number of years.

The endowment will be used to purchase books for the collection. A memorial plaque for Mr. Bovard will be hung in the Library.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

Jan. 18—Charles E. Minneman, assistant chaplain

Feb. 1—Dr. Luther Harshbarger, University chaplain.

Feb. 8—Dr. Robert McAfee Brown, Union Theological Seminary.

CONCERTS

Feb. 9—Artists Series program by The Concordia Choir.

ATHLETICS

Jan. 24—Wrestling, vs. Army

Jan. 31—Gymnastics, versus West Virginia.

Feb. 3—Basketball, versus Temple.

Feb. 7—Gymnastics, versus Army, and basketball, versus Syracuse.

LECTURES

Jan. 19—Distinguished Lecture Series in Philosophy, by Dr. Andrzej Mostowski, University of Warsaw.

Two Lectures Listed In Philosophy Series

Two more lectures in the current Distinguished Lecture Series in Philosophy will be held in the near future.

On Tuesday, Jan. 13 at 8 p.m. in Room 121, Sparks Building, Dr. Leo Strauss, internationally known for his work in political theory and political philosophy, will lecture on "The Central Thread of Plato's Republic," co-sponsored by The Liberal Arts Lecture Series. He will also deliver a technical talk to the members of the faculty of the department of philosophy and others interested at 4:15 p.m. in Room 203 Willard the same day on the subject, "Existentialism."

Dr. Andrzej Mostowski, who holds the chair of philosophy at The University of Warsaw, will deliver the sixth lecture in the series on Monday, Jan. 19 at 2:15 p.m. in Room 2, Sparks Building, on "Incompleteness Problems for Certain Logics with Infinitary Rules of Proof."

Dr. Strauss, who received the degree of doctor of philosophy from the University of Hamburg in 1921, has taught at the New School of Social Research in New York and at the University of Chicago where he has served as professor since 1948. He is author of many journal articles and of a number of books, including "The Political Philosophy of Hobbes," and "Reflections on Machiavelli."

Dr. Mostowski, currently on leave at The University of California at Berkeley, is credited with contributing substantially to almost all branches of logic. Two of his books in English are used by every investigator in the field: "Undecidable Theories," and "Sentences Undecidable in Formalized Arithmetic."

Summer Sessions Time Tables Now Available

The 1959 Summer Sessions Time Table is now available at the Scheduling Office and at the Summer Sessions office, both in Willard Building. Copies have also been distributed to the offices of the several deans.

Calendar

Friday, Jan. 9

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. J. C. Griffiths, professor of petrography, on "Computers and Their Availability."

Gymnastics exhibition of Finnish National team, 7:30 p.m., Rec Hall. Music by Concert Blue Band, 7 p.m.

Center Stage production of "The Reluctant Debutante," 8 p.m., Center Stage. (final weekend.)

Saturday, Jan. 10

Gymnastics, versus Temple, 2 p.m., Rec Hall.

Wrestling, versus Lehigh, 8 p.m., Rec Hall, preceded by freshman meet with Lehigh, at 6 p.m.

Final performance of Center Stage production of "The Reluctant Debutante," 8 p.m., Center Stage.

Sunday, Jan. 11

University Symphony orchestra concert, Theodore Karhan conducting, 3 p.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Rev. Genevieve Dilts.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. The Reverend Preston N. Williams, assistant University chaplain.

First program in television series, "Bull Session," 12:30 p.m., WFBG-TV, Altoona, Channel 10.

Monday, Jan. 12

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Musical program by Air Force R.O.T.C. Choral Society Octet. Voting on membership of steering committee.

Meeting of American Statistical Association, State College Chapter, 5 p.m., Room 201, Willard Building. Dr. H. A. Panofsky, professor of meteorology, on "Power Spectrum Analysis."

Engineering Mechanics Seminar, 4:15 p.m., Room 203, Engineering "A".

Open rehearsal of Mozart Concert Opera Group, 8:30 p.m., Schwab Auditorium.

Tuesday, Jan. 13

Artists Series program by Mozart Concert Opera Group, 8:30 p.m., Schwab Auditorium, in "Cosi Fan Tutti."

Basketball, versus Bucknell, 8 p.m., Rec Hall.

Distinguished Lecture Series in Philosophy, 8 p.m., Room 121, Sparks Building. Dr. Leo Strauss, University of Chicago, on "The Central Thread of Plato's Republic," co-sponsored by The Liberal Arts Lecture Series.

Physics Colloquium, 4:15 p.m., Room 117, Osmond Laboratory. Dr. W. E. Spicer, R.C.A. Laboratories, Princeton, N.J., on "The Photoemissive Process in the Alkali-Antimony Compounds."

Wednesday, Jan. 14

Fall semester classes end, 5 p.m.

American Chemical Society meeting, central Pennsylvania Section, 8 p.m., Room 111, Boucke Building. Dr. Charles C. Price, University of Pennsylvania, on "The Polyethers."

Thursday, Jan. 15

Fall semester examinations begin, 8 a.m.

Friday, Jan. 16

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. George H. Morrison, Sylvania Electric Products Corp., on "Neutron Activation Analysis for Trace Elements."

Schedules Revised Of Classes Next Week

Faculty members are reminded that the schedule of classes next week follows the pattern listed in the General Catalogue and the Faculty Directory as follows:

Monday, Jan. 12—Classes according to the regular Thursday schedule.

Tuesday, Jan. 13—Classes according to the Friday schedule.

Wednesday morning, Jan. 14—Classes according to Saturday schedule.

Wednesday afternoon, January 14—Classes according to the regular Wednesday afternoon schedule.

Five-Year Program Studied

A five-year program to enable a student to earn bachelor's degrees in both Liberal Arts and Engineering has been approved for residence students by both colleges affected.

Approval by the University Senate is yet to come before the program is put into effect.

In many respects the program is similar to the 3-2 Cooperative Programs in Liberal Arts and Engineering Penn State now offers with Westminster, Elizabethtown, Albright, Lycoming, Gettysburg, St. Vincent, and Muskingum Colleges.

Under the resident plan, students will be registered in the College of the Liberal Arts for the first three years of study and in the College of Engineering and Architecture for the final two years. The student may earn the second degree in one of six curricula—Aeronautical, Civil, Sanitary, Electrical, Industrial, and Mechanical.

"We have no way of knowing now," says Earl B. Stavely, associate dean of the College of Engineering and Architecture, "how many students will be attracted to this program. At least 24 other colleges in the country now offer a five-year liberal arts-engineering combination on an intramural basis and 40 engineering colleges have established cooperative programs with 182 liberal arts colleges, apparently with success."

The program of the first three years includes the basic required courses of the Arts and Letters curriculum in the fields of English and literature, foreign language study, sciences and mathematics, history, philosophy, psychology, and the social studies, plus advanced courses in science and mathematics to constitute the equivalent of a major in science. The first two years also require the normal schedule of physical education and R.O.T.C. Transfer to the College of Engineering and Architecture will be approved automatically at the end of the third year if the student has earned an average of C or higher.

The final two years of the program will consist essentially of the advanced technical and professional courses required in the junior and senior years of the engineering curriculum in which the student will earn the B.S. degree.

"One advantage of the program," says Richard C. Maloney, associate dean of the College of the Liberal Arts, "is its flexibility. If a student, after one or two years, finds the program to much, for various reasons, he would have little difficulty transferring to a four-year curriculum in certain other areas."

"But unquestionably the most important advantage of the program is the type of education the student would receive. Industry has demonstrated time and again its need for engineering administrators whose backgrounds show more than a specialized training in engineering."

A total of 110 credits will be required in the first three years, the per-semester

credit varying from 17 to 20½. Total credits to receive the two degrees varies depending on the engineering curriculum, averaging about 180 credits.

"Undoubtedly it will be an unusual student who will enroll for the five-year program," says Maloney, "in that he would have to have the foresight to see the potential advantage it will offer."

At present, approximately 15 students are enrolled in the engineering phase of the cooperative 3-2 program.

Both Stavely and Maloney view the new five-year program as a means of providing students with additional opportunities to get more out of their collegiate careers.

New Television Series Begins Sunday On WFBG

A new television series titled "Bull Session" will be initiated on Sunday, Jan. 11, at 12:30 p.m. on WFBG-TV, Altoona, Channel 10.

Students and faculty members will participate in the series designed to "promote and encourage student participation in and discussion of some of the day's more challenging problems."

The first program will find Dr. William G. Mather, head of the department of sociology and anthropology, participating along with three undergraduate and two graduate students, on the subject of integration. His role will be to guide the discussion, rather than lead it.

"This is primarily a student program," says Gilbert S. Aberg, producer of the program for the department of public information.

Faculty members already enrolled for future programs include Dr. Brice Harris, professor of English literature; Dr. M. Nelson McGeary, head of the political science department; Edwin W. Zoller, professor of art; Dr. Roy C. Buck, associate professor of rural sociology; Dr. Leon Gorlow, associate professor of psychology; and Dr. Kent Forster, professor of European history.

Symphony Orchestra In Concert Sunday

Theodore Karhan, associate professor of music and music education, will conduct the University Symphony orchestra in a concert on Sunday, Jan. 11, at 3 p.m. in Schwab Auditorium. Admission is free.

Student —

(Continued from page One)

medium of student news and opinion, I do believe that some members of the faculty and administration take it much too seriously," Goodwin adds.

"I think we ought to try to regard Collegian with the same tolerance and understanding that most of us show toward student dramatic productions and our athletic teams."

Faculty Bulletin



46/16
THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Third Afghanistan Expedition In Store For Dupree In June

SHAMSHIR GHAR, "Cave of the Sword," is a short hike from tiny village of Badwan, in Kandahar Province of Afghanistan, halfway around the world from University Park, Pa.

From that cave, nearly nine years ago, Dr. Louis Dupree, associate professor of anthropology, brought many material evidences of the history of the area and copious notes about the people living there which have served the scholarly world well and wetted his appetite sufficiently to return to the country again this year.

"Afghanistan," Dupree says, "is still relatively unknown historically or for that matter contemporarily. I have been on two expeditions to the country, the first in 1949 for a few months and the second from June, 1950, to March, 1951.

"There have been several French missions and other expeditions there in the past 30 years, but for archaeologists, anthropologists, and ethnologists, the country is virtually virgin ground. I firmly believe that not only for scholarly reasons but for other practical reasons it is important that we should know more about this area, as well as other Asian countries.

"At any rate, my wife, Ann, and two children, and I are returning to Afghanistan next June, for a year, to add to what we already have learned there."

Some of what Dupree has learned is contained in a 350-page monograph published recently by The American Museum of Natural History, in which many facets of Shamsir Ghar's history are revealed for the first time.

"Shamsir Ghar," says Dupree, "is only one small detail of Afghanistan, perhaps analagous to what Penn's Cave would be to Pennsylvania. But it yielded much information from its artifacts and structure to add to our knowledge of Afghanistan from about 100 B.C. to

the Mongol invasion in the 13th century A.D.

"I hope that in future studies we can learn more about the area all the way back to the Stone Age, and that will be one of our purposes in returning there."

In point of fact, Dupree goes much further in his expeditions than merely to dig for potsherds, beads, metal or stone arrows, and the like. His notes from previous expeditions are replete with references to the people living in the area today (of interest to anthropologists or ethnologists), their culture, agriculture, home life, government, in short their complete way of life.

"A modern expedition," says Dupree, "is designed to learn as much as it can in all directions. This one monograph on Shamsir Ghar is to be supplemented by others, on other aspects of what we found, as well as technical discussions on techniques."

In 1950, the Duprees (Ann was of tremendous help not only in their vil-

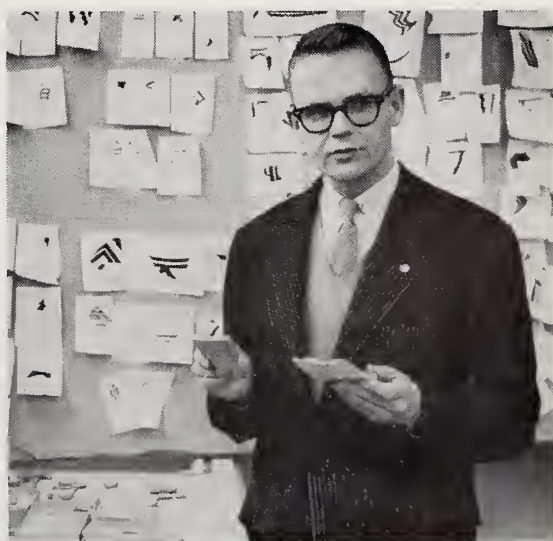
lage home but also at the cave) encountered many problems in their living but also many satisfactions in their relations with the people. Local "mul-lahs," or religious men, in some respects resisted the expedition but again were helpful also. The village of Badwan, a farming community, was of course primitive but on the other hand not uncomfortable.

"Our workmen, recruited locally except for trained archaeologists loaned by the Afghanistan government, proved to be largely willing and able.

"Although many 'ghost' stories were told about the cave, the workmen showed no fear of working there. I suppose this would be akin to the stories we might tell our children to keep them away from a potentially dangerous place but which we don't actually fear."

Badwan and Shamsir Ghar are close to the centuries-old travel routes from the east. Afghanistan, although isolated now without seaports and with limited roads and plane facilities, was once a thriving commercial center, with great caravans carrying trading goods between the Far East and Europe. In its history the area has been conquered

(Continued on page three)



Dr. Louis Dupree, associate professor of anthropology, shows some of the pottery excavated from a cave in Afghanistan nine years ago. He plans to return, with his family, to the same country this June for further study.



Television program, "Bull Session" got off to an auspicious start last Sunday in discussion of "Integration," with Dr. William Mather, at right, helping students.

Student Participation Good On T.V. Program 'Bull Session'

The second program in the new television series titled, "Bull Session," will be shown over WFBG-TV, Altoona, on Sunday, Jan. 25, on the topic, "Conformity."

Dr. Brice Harris, professor of English literature, will sit in on the student discussion as did Dr. William G. Mather, head of the department of sociology and anthropology, on the opening program last Sunday.

Primary aim of the program is to encourage student discussion of some of the more challenging problems of our society. The initial program concerned "Integration." As Dr. Mather said in closing the half-hour discussion, "As you can see, we did not come to any conclusion regarding the problems of integration today. But discussion of these problems is good for us."

The program is unrehearsed. Several times prior to the telecast, Dr. Mather got together with the six participants—graduate students, seniors, and juniors—to talk over the facts on which the students might do some research and generally adhere to in their discussion.

"But the main value," Dr. Mather says, "lay in the spontaneity of their discussions."

"The success of the program lies first in the selection of the students and second on their preparation. I was quite satisfied that they handled themselves well. They seemed to enjoy it and were so intent on exploring the subject that they continued after the program was over."

Dr. Mather, who is a veteran on television, having been on the program "Horizons" and other telecasts, admitted that he was never more nervous than he was for the opening of "Bull Session."

"There are so many uncontrollable factors," he explains, adding, however, that his nervousness disappeared as the students, oblivious to the cameras, got the discussion into high gear.

The participants were free to express their own opinions on the subject of integration, just as they will be in future telecasts. The opinions, as much as possible, are backed up by whatever facts they can discover. It was obvious that they had done much searching for appropriate facts in the first program.

In future sessions, Dr. M. Nelson McGeary, professor and head of the department of political science; Edwin W. Zoller, professor of art; Dr. Roy C. Buck, associate professor of psychology; and Dr. Kent Forster, professor of European history, will be the faculty participants.

Students on the program on Jan. 25 will include Judith Bowers, Kevin Thomas, William Kent, Marian Camins, Carol Gredesky, Frank Hoffstot, and Arlene D'Onofrio. The program will be seen at 2:30 p.m. on Channel 10.

Gilbert S. Aberg, radio-television editor of the department of public information, is producer of the show, which originates from the University's television studios in Room 19 Sparks.

Children's Program Makes Debut Saturday On WFBG

A new television program titled, "Key to the Cupboard," designed to demonstrate how children can profitably use their time during the long winter months, will originate this week from the campus.

The program will make its debut on Saturday, Jan. 17 at 8:30 a.m. over WFBG-TV, Altoona, Channel 10, with Edward L. Mattil, associate professor of art education, and Miss Alice M. Schwartz, graduate assistant in art education, participating along with six State College children currently enrolled in the University's Saturday art classes, ranging in age from 5 to 13.

Items of Interest

• Lectures

L. H. Sommer, chemistry, at Brown and Yale Universities, this week, on research results on organic compounds of silicones.

G. U. Oppel, engineering mechanics, at University of Puerto Rico, last week of January, on three-dimensional photoelasticity and new developments in photoelastic strain gages.

Dorothy H. Veon, education, at New York University Faculty Club, last week, final talk in series of nine on theme, "New Patterns for Business Education."

Joseph Jordan, chemistry, East Tennessee section, American Chemical Society, last week, on "Thermochemical Titrations."

• Articles and Papers

J. V. Smith, mineralogy, co-author with D. W. Breck, Linde Co., "Molecular Sieves," Scientific American, January issue.

W. R. Byrnes, forestry, "Effects of Chemical Brush Control upon Game Food and Cover on a Power Line Right-of-Way," before 13th annual meeting, Northeastern Weed Control Conference.

R. J. Hutnik, forestry, "Late Summer Spraying of Oak-Maple Brush," before same conference.

J. J. Kaufman, economics, "Emergency Boards under the Railway Labor Act," Dec., 1958, Labor Law Journal.

Registrar's Report Dropped

The column, "Report of the Registrar," carried formerly in the *Faculty Bulletin* will no longer be carried because of the pressure of other information.

Offices having urgent need for information regarding withdrawals and changes of names of students should call Mrs. Graff, Ext. 778, and request that they be placed on a mailing list which the Registrar's office will maintain. A printed list of withdrawals will be sent from that office weekly to those requesting it.

Third —

(Continued from page one)

and reconquered, time after time, so that the culture of many peoples has been introduced and left its imprint.

"The most plausible possibility," says Dupree, "is that the cave was used by refugees fleeing for safety from the many wars that continually overthrew kings. There is also the possibility that it was used by smugglers or bandits. In either case it is easy to see how other cultures would show up in the materials we excavated."

From the cave, Dupree extracted more than a ton of materials, carefully selected and catalogued, most of which was returned to this country. In preparing his monograph, he called on specialists to study the potsherds (Dr. Frederick R. Matson, professor of archaeology and assistant dean for research in the College of the Liberal Arts), glass (scientists at the Corning Glass Co.), metal objects, mammal and bird bones, botanical specimens (collected largely by Ann Dupree), soils, mollusks, and many others.

"The scientific approach by specialists," says Dupree, "is of relatively new origin — primarily since World War II. It helps the archaeologist, but at the same time imposes certain broader obligations on him since at the excavation he has to carry on his work to be of more usefulness to the specialist. In some respects, therefore, he must be at least somewhat familiar with all the fields of the specialists."

In addition to knowing the skills of excavation, the archaeologist must be a diplomat (to get the cooperation when needed), a boss (who knows when to shout and when to speak softly), and at times a doctor.

"Everyone assumes you are a medicine man," Dupree says. "Aspirin does wonders."

In his anthropological studies, Dupree worked closely with all types of people, including the governor of the province, the head religious man, and the village leaders, as well as the farmers and the other villagers. Without being obvious, he studies how religion enters into their daily lives, their legal structure, the economic pattern, their art — in short, anything which would help to a better understanding of the people.

"We desperately need this kind of information," Dupree says. "We cannot help these people if we don't understand them, and merely giving them money, tractors, dams, or food and shelter, will not necessarily improve our relations with them."

"For example, in Afghanistan water is tremendously important, but building dams may do more harm than good. They need irrigation systems, but our highly technicalized systems could be wrong for them. That's one reason I said that modern expeditions can be highly practical."

Dupree points out that much of the development of the culture among a

people depends on what is imposed on them by others who want something they have. In Afghanistan, at present, there seems little of importance to the outside world yet the U.S.S.R. has taken considerable interest in the country, and Afghanistan is caught in the middle between West Pakistan and Russia. To a certain extent this posed a problem in the 1950 expedition in that the area originally selected for study was close to the Russian border and the Afghanistan government wished to avoid political troubles in forbidding the expedition to get too close to the borders.

"Nevertheless we were given excellent cooperation," Dupree explains. "They have a fine university at Kabul which is interested in all the archaeological studies being made in the country and it was one of their staff who accompanied us."

One detail Dupree hopes to study in his coming expedition is the effect his previous visit had on Badwan. Some of the hired workmen proved excellent and apparently could develop qualities of leadership, although when they were hired they had no particular status in the village.

"I'd also like to find out what happened to my flash attachment for my camera," he says humorously. "Someone made off with it before I had a chance to use it. What they could do with it I can't imagine."

The coming trip will be sponsored by the American Universities Field Staff and of course Dupree will be on leave for the year. Being away from home is nothing new for this North Carolina-born Harvard graduate, who at the age of 17 was in the Merchant Marine, later joined the U.S. Army paratroopers and saw service in the Philippines and Japan, began making expeditions in 1947 and has since figuratively covered the globe in his studies. One of his latest duties before coming to Penn State last year was in Puerto Rico, with a U.S. Air Force survival group. He has also been on the staff at Harvard and the Air University, Maxwell Air Force Base in Alabama.

He has recently been honored by being named research associate in anthropology of the American Museum of Natural History, in New York, a co-sponsor of the coming expedition.

No Issue Next Week

There will be no issue of the *Faculty Bulletin* next week because of the mid-term break.

Pattee Library Hours Announced

The Pattee Library will observe the following hours between semesters:

Friday, Jan. 23 — 7:50 a.m. to 5 p.m.

Saturday, Jan. 24 — 9 a.m. to 12 noon.

Sunday, Jan. 25 — Closed.

Monday-Friday, Jan. 26-30 — 9 a.m. to 5 p.m.

Saturday, Jan. 31 — 9 a.m. to 12 noon.

Sunday, Feb. 1 — Closed.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

Feb. 1—Dr. Luther Harshbarger, University chaplain.

Feb. 8—Dr. Robert McAfee Brown, Union Theological Seminary.

Feb. 15—Jewish and Christian Services.

CONCERTS

Feb. 9—Artists Series program by The Concordia Choir.

Feb. 13—Stuttgart Chamber Orchestra, Artists Series.

Feb. 21—Philadelphia Orchestra, Artists Series.

ATHLETICS

Jan. 24—Wrestling, vs. Army

Jan. 31—Gymnastics, versus West Virginia.

Feb. 3—Basketball, versus Temple.

Feb. 7—Gymnastics, versus Army, and basketball, versus Syracuse.

Feb. 14—Wrestling, versus Maryland, and Basketball, versus Rutgers.

LECTURES

Jan. 19—Distinguished Lecture Series in Philosophy, by Dr. Andrzej Mostowski, University of Warsaw.

Roethke Wins Poetry Prize

Theodore Roethke, who served on the faculty of the English department from 1936 until 1947, has been awarded the 1958 Bollingen Prize in poetry, by Yale University. He was honored for the book, "Words For the Wind," and is the youngest poet ever to win the \$1,000 award. Now professor of English at the University of Washington, Seattle, Roethke was winner of the Pulitzer Prize in 1954 for his collection of verse, "The Waking."

Academic Regalia Available Locally

A committee of the College of Education faculty has investigated sources locally for the purchase of academic regalia and has reported the following:

The Athletic Store, in State College, will stock a sample of doctoral gowns, cap, and hood, costing \$63, and of the next most expensive gown. Gold tassel will cost \$3 extra.

Orders must be placed one month in advance of expected delivery.

Lethbridge Paintings On Display In Boucke

Paintings by Berry B. Lethbridge, Jr., associate professor of economics, and director of business administration extension, are now being exhibited in the Boucke Building library. This is part of a series of exhibits by faculty members of the College of Business Administration, and their wives.

The paintings are impressions of places and things in the Far East or Middle East. He spent two years in China and India during World War II when he served with the U.S. Navy and he has also served as program adviser for the Far East for the Economic Cooperation Administration. He also completed a two-year tour with the U.S. Embassy and Economic Mission to Turkey prior to joining the faculty in 1955.

Calendar

Friday, Jan. 16

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. George H. Morrison, Sylvania Electric Products Corp., on "Neutron Activation Analysis for Trace Elements."

Sunday, Jan. 18

Chapel Service, 10:55 a.m., Schwab Auditorium. Charles E. Minneman, assistant University chaplain.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Reverend Theodore Braun.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Monday, Jan. 19

State College Color Slide Club meeting, Mineral Sciences Auditorium. Elton Tait on "A Quick Report on a Long Trip," and special slide classification of "Portraits," with Robert H. Breon, Jr., as judge.

Distinguished Lecture Series in Philosophy, 2:15 p.m., Room 2, Sparks Building. Dr. Andrzej Mostowski, University of Warsaw, on "Incompleteness Problems for Certain Logics with Infinitary Rules of Proof."

Tuesday, Jan. 20

Physics Colloquium, 4:15 p.m., Room 117, Osmond Laboratory. Dr. Walter I. Goldberg, physics department, Carnegie Institute of Technology, on "The Approach to Spin Temperature Equilibrium in a Quadrupolar Solid."

Friday, Jan. 23

Fall semester ends, 5:30 p.m.

Monday, Jan. 26

President Eric A. Walker will address a meeting of the faculty at 3 p.m. in Schwab Auditorium.

Speech Books Asked To Aid Foreign Countries

Textbooks in the field of speech are still being collected for overseas use, Dr. Robert T. Oliver, head of the department of speech, points out.

To date, a total of 7,000 text books has been collected and sent to foreign countries in a project sponsored by the Speech Association of America. The ultimate goal is 100,000 books.

Purpose of the project is to relieve the serious shortage of books in this field abroad, in this way helping foreign countries develop more effective speech and thereby promote democratic living and international understanding.

The U.S. Information Service cooperates in the project by paying shipping costs. More than 90 colleges and universities are cooperating.

Locally, books may be sent to the Speech Department, care of Dr. Oliver, 305, Sparks.

Ostermayer Named To Fill Vacant Trustee Position

Robert W. Ostermayer, president of the Pennsylvania Industrial Chemical Corporation, has been appointed to the Board of Trustees to fill the vacancy caused by the resignation of Albert J. Nesbitt, of Philadelphia.

Now serving his second term as chairman of the Penn State Alumni Fund, Ostermayer received the Distinguished Alumnus Award from Penn State in 1954.

James B. Long, president of the board, explained that Mr. Nesbitt asked to be relieved because of the press of other business. Mr. Ostermayer will complete the unexpired term on June 30, 1960.

HUB Dining Room Reserved For Faculty Use At Lunch

Dining Room "A", of the Hetzel Union Building, will be set aside at lunch time for exclusive faculty use on Wednesday, Thursday, and Friday of each week on a trial basis starting next semester. The trial will be extended for the entire semester. Cafeteria service will prevail.

Purpose of the trial is to give faculty members an opportunity to get together at lunch time to discuss mutual problems. The usual cafeteria hours of service will be in force — 11:30 a.m. to 1:15 p.m.

Faculty Procession At Commencement

Faculty members who plan to participate in the Commencement Exercises on Sunday, Jan. 25, will assemble at 1:40 p.m. under the south balcony of Recreation Building. The faculty procession will move to the main floor promptly at 2 p.m.

Dr. Libby To Give Commencement Talk

Dr. Willard F. Libby, member of the U. S. Atomic Energy Commission, will be the speaker for commencement exercises at 2 p.m. on Sunday, Jan. 25.

Approximately 700 degrees, including more than 200 advanced degrees, will be granted.

Well known for his work at the University of Chicago on radiocarbon and natural tritium before joining the AEC in 1945, Dr. Libby has won several outstanding awards, including the 1958 Willard Gibbs Medal Award of the American Chemical Society. He began his academic career at the University of California.

Barnes Explains System Of Handling Salary Checks

A three-fold purpose is served by using the present system of distributing salary checks to faculty and staff members of the University, controller Carl R. Barnes says.

The present system, he pointed out, insures efficient handling, protects the confidential nature of the checks, and insures their prompt delivery.

Difficulty in maintaining up-to-date address lists, the lack of security in sending checks through campus mail, and the widespread practice of having secretaries open all mail were among the reasons he advanced to justify the present plan.

At the present time an employee may request that his check be deposited in either of the two State College banks and the University will comply. This service is not available out of town, Barnes said, because the potential use would not justify the additional work and expense.

The two local banks, Barnes notes, provide a special service in handling these deposits.

President Eric A. Walker will address a meeting of the faculty in Schwab Auditorium on Monday, Jan. 26, at 3 p.m. All members of the faculty are urged to be present. Arrangements have been made to carry the talk via telephone network to faculty members at the other campuses and centers.

Review Underway On General Ed Courses

Under terms of approval by the Senate on June 4, 1957 of eight courses in general education (Arts 1 and 2, Bi Si 1 and 2, Human 1 and 2, and So Sc 1 and 2), these courses were adopted for a period of two years, subject to review by the Senate Committee on Courses of Study in the Spring of 1959. The Committee, now ready to undertake this review, wishes as one of its first steps to request that all interested members of the Faculty communicate to it any comments, criticisms, or suggestions which they may care to make. Such communications should be directed to the Chairman of the Committee, Dr. Philip A. Shelley, 229 Sparks Building, before the end of February, 1959.

Graduate Exams Listed

Graduate students who are planning to take one or both of the written foreign language reading examinations at the next scheduled time, March 2, and who have not previously taken the preliminary oral tests given to determine the extent and adequacy of their preparation for these examinations should arrange for the oral tests as follows: By making an appointment at room 227 Sparks Building for the German oral tests, which are to be given on January 28, 29, 30, and 31 and at room 300 Sparks Building for the French or Spanish oral tests, also to be given on January 28, 29, 30, and 31.

All other students who have previously passed the preliminary oral tests but have failed the written examination should register for the regular written examination on March 2 no later than February 2 in room 227 Sparks for German and room 300 Sparks for French and Spanish.

Annual Report Available

The annual report of the President is available to faculty members desiring a copy. It may be picked up at the President's office.

Brown To Sing

Raymond H. Brown, assistant professor of music, will sing in Philadelphia and Pittsburgh within the next two weeks. On Tuesday, Jan. 20, he will give a recital at the Matinee Music Club in Philadelphia. On Sunday, Jan. 25, he will sing the leading baritone role in the oratorio, "L'Ensanse du Christ," by Berlioz, at the 6th United Presbyterian Church in Pittsburgh.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

President Talks On Budget, Other Matters

(The following are excerpts from Dr. Eric A. Walker's "State of the University" talk to the faculty on Monday, Jan. 26. The address was heard at Penn State campuses and centers via telephone network).

On August 29 of last year, I filed with the Governor's office an appropriation request for the 1959-61 biennium of \$43.9 million. Since that time, I have met with members of the Governor's staff and with the responsible members of both houses of the General Assembly to explain our need for these funds. . . . Our request for this biennium represents an increase of almost 16 per cent over the \$38 million we originally requested for the biennium ending this June and an increase of \$14 million, or about 48 per cent, over the \$29.7 million appropriation actually granted us by the 1957 General Assembly.

Penn State must compete actively with all these and with similar institutions for its scholars. We cannot hope to maintain our position as an outstanding state university unless we raise our salary scale significantly in relation to those in effect at competing institutions.

As a beginning step in this direction, therefore, we are including in our budget for the 1959-61 biennium an additional amount of \$8-1/3 million for wage and salary adjustments.

This means that, if the University does no more during the next two years than it is now doing, Penn State's current base budget of \$83 1/3 million will have to be increased by more than \$9.8 million bringing the total required simply to maintain our present programs at their present levels to 93.2 million.

I am convinced that Penn State must expand no further until those programs that we already have are adequately financed. The faculty and staff have for years kept the University growing on compromise salaries, professional dedication, and make-shift arrangements.

We can—and do—applaud this sort of dedication, but we cannot expect to continue to build a great university on the basis of dedication alone. Until our present programs are soundly based financially, we can admit no new students—we can accept no new research or instructional projects—we can undertake no new public services.

* * *

Our proposed budget for the 1959-61 biennium, then, totals over \$100 million. Almost \$93 1/4 million of it is needed simply to maintain our present programs at their present levels during the next two years. Slightly more than \$6 1/2 million is needed to expand our programs of instruction so that we might enroll, during these next two years 5600 more young Pennsylvanians than are now enrolled at University Park and at our other campuses and centers. Finally, \$1 million is earmarked for new research programs.

Where are we to get the money with which to finance this budget?

First, there are student fees. Careful estimates indicate that we can expect to receive \$24 3/4 million in fees and other charges. This amount includes the fees to be paid the University by the additional students for which we will have space during the coming biennium. We expect to receive \$15 1/2 million from the operation of our auxiliary enterprises—our residence halls, our food services, our student health service, and the like. We shall probably receive almost \$11 million in restricted funds—funds granted us for specific services by sponsoring organizations. Some of this is granted us by various agencies of the state government for specific research. Much of it consists of Federal grants for conducting certain specified types of research projects. Some of it comes from private individuals, foundations, and corporations. Finally, we shall probably receive about \$5 3/4 million from the Federal government for instructional and extension programs in agriculture and home economics.

Estimated income from these sources, then, totals almost \$57 million. We have asked the Commonwealth of Pennsylvania to provide, through out biennial appropriation, the remaining \$43.9 million needed to put our present operations on a sound financial basis, to reward adequately an outstanding faculty, to meet rising costs of operation, to enroll 5600 additional students during the next two years, and to step up our programs in basic and applied research by \$1 million.

First, I must explain that the most practical solution to some of the very difficult problems facing the state, as we and others see it, is to be found in the two-year college. There are many reasons why this is believed to be true.

* * *

In the policy decision reached last Saturday, the Trustees recognized the important role that will be played by the two-year institution in meeting Pennsylvania's educational crisis. They also recognized that Pennsylvania now has—and has had for 25 years—a framework upon which to erect a statewide system of such institutions. Penn State organized its first center in 1932 in response to a real need for low-cost collegiate education in the several communities of the Commonwealth during the Depression. This center and others that were established through the years were pressed into service after the second World War to provide Pennsylvania veterans with an opportunity for a collegiate education. Others have since been set up to meet important local needs not provided through established institutions. In this way, Penn State has developed, through the years, 15 centers and campuses located in or near the urban areas of the Commonwealth, each of which was established to satisfy demanding local needs.

In order to harvest this 25-years' experience in the operation of two-year colleges so that it might be made available to the Commonwealth in the pres-

(Continued on page three)

Senate Minutes

MINUTES OF THE MEETING OF JANUARY 8, 1959

The University Senate met at 4:15 p.m. on Thursday, January 8, 1959, in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the December 4, 1958 meeting were approved as printed in the Faculty Bulletin for December 19, 1958. 189 senators signed the roll.

Communications from University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: W. C. Fernelius (Thomas Wartik), E. P. Strong (Alice Warne), F. W. Peikert (H. D. Bartlett), A. W. VanderMeer (Gerald Bosch), H. S. Brown (G. M. Torkelson), and E. T. McDonald (B. M. Siegenthaler).

From L. E. Dennis, Vice President for Academic Affairs, the following:

Would you please inform the membership of the University Senate at its meeting January 8 that President Walker will address a meeting of the faculty of the University in Schwab Auditorium at 3 p.m. on Monday, January 26, 1959. All members of the faculty at University Park are urged to be present. Arrangements will be made to carry the talk by radio to faculty members at the other Campuses and Centers.

From Robert G. Bernreuter, Secretary to the Senate:

It has been called to my attention that an action taken by the Board of Trustees at its meeting on May 9, 1958, which is of interest to the Senate has not been called to the attention of the Senate. On that date the Board of Trustees approved the Two-Year Associate Degree Curriculum in Chemical Technology. This action on the part of the Board followed the recommendation of the new curriculum by the University Senate.

Reports of Standing Committees

P. A. Shelley, Chairman of the Senate Committee on Courses of Study, presented the report which had been distributed with the agenda as appendix "A" and made the following corrections to the modifications:

- #81. Should read Delete A Ed 414 as a prerequisite.
- #88. Proposed prerequisites should be D Sc 1 or 15 and 3 additional credits in Dairy Science.
- #92. Title should be—Advanced Gas Turbines (3-6)

Mr. Shelley moved the adoption of the report as corrected. The motion was seconded and passed. The report is on file in the office of the secretary.

R. E. Larson, Chairman of the Senate Committee on Educational Policy, presented the report which had been distributed with the agenda as Appendix "B" and asked that the words "in academic grades" be deleted from recommendations a, b, and c. The changed recommendations are as follows:

It is recommended that it be the policy of The Pennsylvania University to recognize exceptional academic attainment, as evidenced by cumulative grade point average, by placing the following designations on the diploma of those students whose averages fall within the indicated ranges: a. "with distinction" Cumulative grade point average 3.40 to 3.59; b. "with high distinction" Cumulative grade point average 3.60 to 3.79; c. "with highest distinction" Cumulative grade point average 3.80 to 4.00.

Mr. Larson moved the adoption of the report. The motion was seconded. In the discussion which followed Hummel Fishburn moved that Latin phrases be used to designate honors. The motion was seconded and defeated. R. T. Oliver moved that the report of the Committee be tabled. The motion was seconded and defeated. After further discussion the motion to adopt the report of the Committee as corrected was passed. The complete report is on file in the office of the secretary.

F. M. Coombs, Chairman of the Senate Committee on Calendar and Class Schedule, presented the report which had been distributed with the agenda as Appendix "C" and moved its adoption. The motion was seconded. In the discussion which followed Mr. Coombs stated that Recommendation K (Vacations) 3 should be changed to read:

That Spring Recess shall be seven days in length, extending from 11:50 a.m. on Wednesday before Easter to 12:15 p.m. on the following Wednesday.

B. F. Howell presented amendments to items c, d, e, h, i, j, and k of the recommendations and moved their adoption. The motion was seconded and after considerable discussion

was defeated. A. W. Hutchison referred to the last two days of the proposed Fall Semester, 1959 calendar which are Monday and Tuesday, and moved that classes which normally fall on Wednesday and Thursday fall on Monday and Tuesday in order that there be 15 meetings of each class. The motion was seconded and defeated. The motion on the report of the Committee was passed as changed by Mr. Coombs. The recommendations are as follows:

A. Calendar System—That the University operate on a year-round calendar of two semesters and summer sessions.

B. Summer Sessions—That the summer sessions program of twelve weeks be operated in periods of three weeks, six weeks, three weeks, and concurrently in two sessions of six weeks each.

C. Orientation—That the fall semester orientation period begin on the Sunday following Labor Day. That the spring semester orientation period be conducted during the week preceding the beginning of classes.

D. Registration—That final registration be conducted during the four days preceding the beginning of classes and that summer sessions registrations be included in the periods described under (B).

E. Number of Class Periods—That each academic semester consist of forty-four class periods, exclusive of vacations and the examination period, for each standard three meetings per week sequence or the equivalent for summer sessions.

F. Length of Class Periods—That the length of the class period during the regular semester shall be fifty minutes and during the summer sessions eighty minutes with a ten-minute interval between classes.

G. Study Day before Examinations—That one free day each semester, which may be a Sunday, be allocated for study between the last day of classes and the first day of the examination period.

H. Final Examinations—That at least eight days, excluding Sundays, be devoted to final examinations at the end of the regular semesters. For the summer sessions examinations shall be held during the last regular scheduled class period.

I. Commencements—That such Commencement exercises as are scheduled be held as soon as feasible following final examinations.

J. Time Interval between Semesters—That a minimum time interval of nine days be provided between the end of the last fall-semester examination and the beginning of classes for the spring semester. This provides for at least four "clear days" between the end of the fall semester and the beginning of registration for the spring semester.

K. Vacations—

1. That Thanksgiving Recess shall be five days in length, extending from 5:05 p.m. on Tuesday to 8:00 a.m. on the following Monday.

2. That Christmas Recess shall be at least fourteen days in length.

3. That Spring Recess shall be seven days in length, extending from 11:50 a.m. on Wednesday before Easter to 12:15 p.m. on the following Wednesday.

4. That July Fourth be a holiday.

5. That emergency vacation periods which may be required by weather or other cogent reasons may or may not be made up as conditions warrant.

L. Class Schedule—

1. Noon-hour Classes—It shall be the policy of this institution to schedule noon-hour classes (12:15 to 1:05 p.m.) as necessary. No student shall be required to schedule consecutive classes between 11:00 a.m. and 1:05 p.m.

2. Evening Classes—It shall be the general policy of this institution to schedule classes for regular full-time students from 8:00 a.m. to 5:05 p.m. Monday through Friday, 8 a.m. to 11:50 a.m. Saturday, and at other hours as an expedient to meet special situations.

The complete report and the amendments as presented by Mr. Howell are on file in the office of the secretary.

A. D. Brickman, Chairman of the Senate Committee on Academic Standards, presented the report which had been distributed with the agenda as Appendix "D" and moved its adoption. The motion was seconded. The report contained a revision of the present Rule P-21 of the Regulations for Undergraduate Students to read as follows: Subject to the approval of the Director of the Division of Counseling, a student may enroll in that division for no more than two semesters beyond the freshman year.

Questions were raised regarding the possibility of a student staying too long in the Division of Counseling and then not being able to enter a College but D. H. Ford explained this changed rule would permit a student who had been enrolled in the Division of Counseling to have the same opportunity as a student admitted to a College and then transferred to the Division. R. W. Brewster moved that the report be amended as follows: Subject to the approval of the Committee on Academic Standards a student may enroll in the Division of Counseling for

no more than one semester beyond the freshman year. The motion was seconded and defeated. The motion on the proposed rule was passed. The report is on file in the office of the secretary.

Mr. Brickman then made the following statement:

At the December 1958 meeting of the Senate the matters of "(a) removal of penalties on upperclassmen for class cuts and (b) exemptions from final examinations" were referred to this Committee for consideration. These issues were recommended by the Student Encampment to the All-University Cabinet which in turn submitted them for possible Senate action.

Preliminary discussion indicates that the Committee is unable to study these points in detail without first knowing what specific changes in current practice are being proposed, what Senate regulations if any are involved, and how the proposed changes can be justified. Accordingly, the Committee will defer further consideration until these matters have been clarified.

J. F. Bradley, Chairman of the Senate Committee on Scholarships and Awards, moved the approval of the report which had been distributed at the meeting, and which had been approved by President Walker. The motion was seconded and passed. Mr. Bradley pointed out that the average grade of the recipients of the scholarships was 3.57. The persons nominated to receive the awards are as follows:

Alpha Phi Omega Scholarship

Werner, Larry Allan (Physical Education) \$200.

Class of 1921 Scholarships (\$200)

Wernham, Evelyn Isabel (Agriculture); Kerlin, Roger I. (Chemistry and Physics); Mares, Marianne (Liberal Arts); Yeager, Dorothy (Home Economics); Dutko, Michael P. (Engineering and Architecture); Snyder, Nola J. (Liberal Arts).

General Awards

Burnosky, John E. (Liberal Arts) \$125; Dandrea, Albert J. (Engineering and Architecture) \$200; Elliott, Robert M. (Business Administration); \$125; Formoso, Carl J. (Chemistry and Physics) \$200; Fry, Samuel R. (Agriculture) \$150; Greenburg Harold (Liberal Arts) \$125; Grube, Geraldine M. (Agriculture) \$150; Hughes, Katharine L. (Liberal Arts) \$125; Kasander, Theodore (Engineering and Architecture) \$200; Kauch, Diane S. (Education) \$200; King, Franklin G. (Chemistry and Physics) \$200; Leavitt, Jacqueline (Liberal Arts) \$200; McGuckin, Andrew J. (Liberal Arts) \$125; Moorehead, Marjorie J. (Education) \$300; Moyer, Robert D. (Engineering and Architecture) \$200; Myers, Joel N. (Mineral Industries) \$150; Peranteau, George H. (Liberal Arts) \$125; Pyle, Winifred A. (Home Economics) \$200; Roberts, Cynthia L. (Physical Education) \$125; Sappe, Mary R. (Liberal Arts) \$125; Sleigh, William L. (Business Administration) \$300; Sutherland, Barbara J. (Home Economics) \$300; Wall, John V. (Education) \$200.

Louise Carnegie Scholarships (\$75)

Delfiner, Seymour (Business Administration); Smith, Arnold R. (Engineering and Architecture); Lewellen, Wilbur Garrett (Engineering and Architecture); Flack, Charlotte Mary (Home Economics); Harkins, Charles H. S. (Agriculture); Young, John Albert (Engineering and Architecture); Withrow, Millcent P. (Home Economics); Werner, Nancy Jane (Business Administration); Herron, Judith Ann (Home Economics); Cope, Carolyn Joan (Education); Coen, Ira Hearst (Engineering and Architecture); Strauss, Penny Roberta (Liberal Arts).

Class of 1922 Scholarships (\$100)

Reinhard, Ronald James (Chemistry and Physics); Valentine, David Arthur (Engineering and Architecture); Greer, Carolyn Anne (Liberal Arts); Bernhard, Evelyn Esther (Education); Graham, Paul W. L. (Engineering and Architecture); Blakeslee, Carol L. (Liberal Arts); McCarron, Russell (Mineral Industries); Gibboney, Richard H. (Education); Moore, Margaret A. (Home Economics); Aluise, Joanna L. (Education); Bidler, Joan A. (Home Economics); Wilson, Richard W. (Engineering and Architecture).

Garner-Rothrock Memorial Scholarship

Kardos, John Louis (Chemistry and Physics) \$175.

Lawrence J. Ostermayer Scholarships (\$100)

Bundy, Barbara Ann (Education); Detwiler, Ruth A. (Education); Diehl, Samuel A. (Engineering and Architecture); Braund, Ruth E. (Education); Hegmann, John J. (Engineering and Architecture); Adomshick, Charles T. (Engineering and Architecture); Droney, Bernard E. (Engineering and Architecture); Hartman, Marshall L. (Business Administration); Moeller, Guido (Chemistry and Physics); Ahlquist, Marian S. (Education); Flay,

Joseph C. (Liberal Arts); Sligh, Sandra A. (Education); Tschopp, Larry L. (Engineering and Architecture); Kaupp, Herbert R. (Engineering and Architecture).

Class of 1920 Scholarships (\$100)

Brewer, David Meredith (Engineering and Architecture); Warner, Ada Woodward (Liberal Arts); Schlosser, R. Blaine (Agriculture); Frymoyer, Edward M. (Engineering and Architecture); Monaco, Jacquelyn J. (Home Economics); McCreary, Donald L. (Business Administration); Fulton, Robert Barry (Engineering and Architecture); Leacock, Lee A. (Engineering and Architecture).

Aluminum Company of America Scholarship

Baker, Dorothy (Chemistry and Physics) \$500.

Espy Scholarship

Gordon, Samuel (Education) \$150.

Chimes Scholarship

Gilmore, Marjorie Gay (Chemistry and Physics) \$75.

Ethel and Bayard Kunkle Scholarships (\$250)

Angelotti, Ruth E. (Education); Bongiorno, Bernice (Liberal Arts); Hilbourn, Carmin L. (Business Administration); Ripsom, George A. (Engineering and Architecture); Bedrava, Joyce D. (Education); Ebert, Joanne G. (Education).

John W. White Scholarships

Warner, Frank W. (Engineering and Architecture) \$200; Duross, Darla (Education) \$150; Clagett, Donald (Chemistry and Physics) \$100.

Helen Wood Morris Scholarships (\$62.50)

Jones, Robert A. (Education); McCall, Charles T. (Chemistry and Physics).

Lieutenant Wagner Scholarship (\$100)

Carnes, James E. (Engineering and Architecture); Rabenold, Marilyn L. (Engineering and Architecture); Seaman, Alan M. (Agriculture).

Mary Thompson Dale Memorial Scholarship

Martin, Lois J. (Education) \$100.

Vance C. McCormick Scholarship

Sponseller, Max L. (Agriculture) \$150.

\$500 Awards

Braidie, Carol A. (Home Economics); Rogers, Margaret A. (Education).

Mr. Bradley also stated that a summary of all scholarships and awards granted in the University had been distributed at this meeting for the information of the Senate. This summary is on file in the office of the secretary.

D. H. McKinley announced Commencement for January 25, 1959 at 2:00 p.m.

The next regular meeting of the Senate will be on February 5, 1959 in Room 121 Sparks Building. The agenda will be distributed on January 22, 1959. The meeting adjourned at 5:31 p.m.

Robert G. Bernreuter
Secretary

President —

(Continued from page one)

ent crisis, the Board approved the establishment of a *System of Commonwealth Campuses*. This change will integrate the total physical resources of The Pennsylvania State University into a single state-wide system of public higher education, the individual units of which will operate under uniform academic and financial policies.

* * *

I am sure we have many more areas of distinction. To discover these, we have undertaken a thorough, systematic examination of all our departments and all other areas of activity within the University. I might add that I hope to use this examination not only to discover our areas of real distinction but also to serve as a guide in eliminating marginal and submarginal University contributions—areas in which other institutions can do a better job than we can—so that we might concentrate our energies and our talents in those areas in which we—either alone or in co-operation with other institutions—can serve with distinction.

Unfortunately, a university's reputation, like that of a person, lags behind its performance. With an athlete, this time lag may be no more than a few hours. With a professional man, it may be a few years. With a university, a time lag of perhaps more than a decade may pass before its reputation finally catches up with its performance.

Because of this, we cannot sit still. We must strive continually to improve the quality of our programs, to discover and exploit our strengths, to shore up and strengthen those areas in which we are weak, and to correct our faults.

Continual self-appraisal and improvement of this sort is not an easy task. We should, however, expect no less from ourselves. If we meet this challenge—and I am confident that we will—Penn State will emerge as one of America's most distinguished universities—a university that fully deserves the support of all Pennsylvanians.

scholarly books by the faculty.

"Best book manuscript" is defined as one that best exemplifies high standards of scholarship and creativity in its field, without limitation as to the breadth or narrowness of its subject matter, and without reference to its popular appeal.

The Award will be administered by The Pennsylvania State University Press Advisory Committee under the following rules and regulations:

I. All book manuscripts offered the University Press by persons who are at the time members of the teaching or research staffs of the University, with the exception of manuscripts that represent a report on a paid research project, will be eligible.

II. The manuscript must be written in a form suitable for publication.

III. The term for the submission of manuscripts for each award will be from Jan. 1 through Dec. 31. The first award will be made for the year 1959—

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

Feb. 8—Dr. Robert McAfee Brown, Union Theological Seminary.
Feb. 15—Jewish and Christian Services.
Feb. 22—Dr. Samuel D. Proctor, president, Virginia Union University, Richmond, Va.

CONCERTS

Feb. 9—Artists Series program by The Concordia Choir.
Feb. 13—Stuttgart Chamber Orchestra, Artists Series.
Feb. 21—Philadelphia Orchestra, Artists Series.
Mar. 1—Artists Series program by Jussi Bjoerling

ATHLETICS

Feb. 7—Gymnastics, versus Army, and basketball, versus Syracuse.
Feb. 14—Wrestling, versus Maryland, and Basketball, versus Rutgers.
Feb. 24—Basketball, versus Lehigh.
Feb. 27—Basketball, versus Carnegie Tech.

LECTURES

Feb. 17—Graduate School Series. Andrew Cordier, historian-executive of the United Nations."

Committee Appointed To Study Superior Teaching

The problems of recognizing good teachers and measuring teaching ability will be studied by a nine-man faculty committee headed by Dr. Otis E. Lancaster, George Westinghouse professor of engineering education.

Serving on the committee will be Dr. Jessie Bernard, professor of sociology; Dr. H. M. Davis, professor of chemical metallurgy; Dr. John J. Gibbons, professor of physics; Dr. Hazel M. Hatcher, professor of home economics education and home-community relations; Dr. John D. Lawther, professor of physical education; Dr. William M. Lepley, professor of psychology; Dr. Owen H. Sauerlender, lecturer in economics; and Dr. J. E. Wright, associate professor of genetics.

President Eric A. Walker appointed the committee "to find methods of identifying superior teaching ability in order that we might reward excellence."

sometime in 1960.

IV. If, in the opinion of the Press Advisory Committee, no book-length manuscript worthy of the Award is submitted during any one year, no award will be made for that year.

V. Every member of the faculty will be notified by mail of any changes in the award or any modification of the rules and regulations.

T. Rowland Slingluff, director of the department of publications and University editor, succeeded Mr. Bell as director of The Press. He is also a member of the Press advisory committee which at present consists of George E. Brandow, professor of agricultural economics; J. Frank Cone, professor of bacteriology; Henry W. Johnstone, Jr., associate professor of philosophy; Richard C. Maloney, associate dean of the College of the Liberal Arts; E. Willard Miller, professor of geography; and J. Mitchell Morse, assistant professor of English composition.

Press To Make Award For Better Manuscript

The Louis H. Bell Memorial Award has been established by The Pennsylvania State University Press to honor the first director of the Press who served the University for 24 years, 15 as director of publication information, prior to his death last October.

The award will be made each year, beginning in 1960, to the member of the teaching and research staff of the University who submits the best book manuscript during the preceding year.

Winner of the award will receive a citation, a cash prize of \$1,000, and all royalties earned by the book as a University Press publication.

All members of the teaching and research staff of the University are eligible for the award, which has been created to encourage the production of

Calendar

Saturday, Jan. 31

Gymnastics, versus West Virginia, 8 p.m., Rec. Hall.

Sunday, Feb. 1

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther H. Harshbarger, University chaplain.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Mr. Richard Dulin.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Monday, Feb. 2

Faculty Luncheon Club, 12 noon, Dining Room "A," Hetzel Union Building. Dr. James Gemmell, professor of education, on "A Year with the Friendly Finns."

Linear Programming Seminar, 11 a.m. to 1 p.m., Room 101, Hunt Building. Dr. Peter Wegner, research associate, electrical, engineering, on "The Theory of the Firm."

Penn State chapter, American Statistical Association, meeting, 5 p.m., Room 201, Willard. Dr. Hans Panofsky, professor of meteorology, on "Power Spectrum Analysis."

Spring semester classes begin, 8 a.m.

Tuesday, Feb. 3

Basketball, versus Temple, 8 p.m., Rec Hall. Physics Colloquium, 4:15 p.m., Room 117, Osmond. Dr. Emil Kazes, department of physics, University of Wisconsin, on "Crossing Symmetry and p-Phase Shifts in Pi-p-Scattering."

Statistical Computation Workshop, 4:15 p.m., Room 105 Forestry. Dr. K. R. Bennett, professor of agricultural statistics, on "Generalized Least Squares Analyses."

Economics Faculty Seminar, 12 noon, dining room "A," Hetzel Union Building. Dr. Marvin E. Rozen, assistant professor of economics, on "Investment Control in Post-War Britain."

Wednesday, Feb. 4

Forestry Convocation, 11 a.m., Room 121, Sparks. Dr. Howard A. Cutler, assistant to the vice president for academic affairs, on "The General Education Program."

UCA program on "The Responsible University in an Age of Crisis," 8 p.m., main lounge, Helen Eakin Eisenhower Chapel. Seymour Leventman, Robert K. Murray, and Preston N. Williams, on "An Analysis and Critique of Contemporary Values and Pressures in the University."

Thursday, Feb. 5

Mathematics Colloquium, 3:15 p.m., Room 124, Sparks Building. Dr. W. E. Jenner, associate professor of mathematics, Bucknell University, on "Complex Multiplications."

University Senate meeting 4:15 p.m., Room 121, Sparks Building.

Friday, Feb. 6

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Paul Weisz, research and development department, Socony-Mobil Laboratories, on "Diffusion Effects in Porous Reaction Systems."

Pollution Committee Set To Study Fish Killing

Three faculty members have been named by President Eric A. Walker to a six-man task force to probe the problems created by pollution of undetermined origin in the Spring Creek Water basin.

They are: Dr. B. G. Anderson, head of the department of zoology and entomology; R. Rupert Kountz, professor of sanitary engineering; and Dr. Edwin L. Cooper, associate professor of zoology.

Marlin E. Wilt, of Williamsport, regional sanitary engineer, Dr. Charles S. Myers, of Harrisburg, biochemist, and Arthur D. Bradford, Pennsylvania Fish Commission assistant chief biologist at the Benner Springs project, were also named to the task force.

The coordinating committee hopes to announce soon the name of a nationally-known authority who will serve as consultant to the task force.

McClay Named Head Of Agricultural Education

Dr. David R. McClay, assistant director of resident instruction and director of short courses in the College of Agriculture, has been named head of the department of agricultural education, effective Feb. 1.

He succeeds Dr. Henry S. Brunner, who retired on Jan. 1.

Beaver Field To Be Moved, Enlarged

The relocation and enlargement of the football stadium will begin at the conclusion of the 1959 football season, the Board of Trustees announced last weekend.

Preliminary work, however, will be done at the site, Ernest B. McCoy, dean of the College of Physical Education and Athletics, indicated, before relocation work is begun. This includes clearing the site, laying out and planting the football field, building approach roads, and other projects.

The stadium will be enlarged to accommodate 43,000 spectators in the permanent stands. At present, only 28,000 can be seated in the steel stands but an additional 2,000 can be provided for in temporary bleachers. The added capacity is expected to be accomplished by building atop the present stands.

UCA Series Resumes On Responsible University

The third in the series of programs on "The Responsible University in an Age of Crisis" will begin Wednesday, Feb. 4, at 8 p.m. in the main lounge of Helen Eakin Eisenhower Chapel, sponsored by the University Christian Association.

This series is titled "The Vocation of the Professor in Our Time." The three additional programs in the series will be given on Feb. 18, Mar. 4 and Mar. 18. The program on Feb. 4 will feature Seymour Leventman, instructor in sociology, Robert K. Murray, associate professor of American history, and Preston N. Williams, assistant chaplain. The program is titled, "An Analysis and Critique of Contemporary Values and Pressures in the University."

Plan National Meeting

Dr. Elizabeth C. Hillier, Dr. E. Terry Schwarz, and Dr. Florence E. Taylor were members of a committee of 18 which recently planned the national meeting in Chicago in February of the Association for Student Teaching. Dr. Schwarz is president of the Pennsylvania Association.

Club Elects Steering Group

The Faculty Luncheon Club has elected the following to its Steering Committee for the 1959 Spring Semester: Dr. Howard A. Cutler, Lt. Colonel William C. Pelton, Dr. Frank I. Anthony, Dr. Teresa Cohen, and Genevieve M. Dilts.

Trustees Approve Formation Of Education Departments

The present department of education in the College of Education will be supplanted by three departments — elementary education, secondary education, and educational services—effective July 1, as a result of action by the Board of Trustees last weekend.

Dr. John R. Rackley, dean of the College of Education, pointed out that the steady rise in the number of undergraduates and the rapid growth of the graduate program in education since 1945 indicated the necessity for the reorganization. An increase in efficiency of operation and improved services to students were sighted as cause for the reorganization.

Dr. Rackley said he felt the department of educational services would furnish an appropriate organization for the various small sections of the present department of education which provide courses and services for students but which have no undergraduate program for which they are responsible.

State, Federal Monies Only Half Of Income

Of the total operating cost of \$42,813,509 last year, 35.8 per cent was provided by the Commonwealth and 17.2 per cent came from Federal funds.

Auxiliary enterprises and student fees were two major sources of income for the 1957-58 fiscal year, the former totalling \$8,234,527, or 19.2 per cent of the total. Student fees yielded \$7,235,261 or 16.9 per cent.

These and other data are contained in President Walker's annual report, copies of which are available to faculty members at the Office of the President in Old Main.

It was noted that student fees for resident Pennsylvanians are currently \$350 per year, fourth highest of all land-grant colleges, and 55 per cent above the average of \$226.

Space Technology Subject Of 17-Week Film Series

A series of 45 filmed lectures on "Space Technology" began this week under the sponsorship of the Central Pennsylvania Section of the Institute of Radio Engineers.

The series of lectures is given in 17 weekly installments and each installment is being shown three times a week, to permit as many interested persons as possible to see them.

On Tuesday of each week, the film will be shown at the Curtiss-Wright Aircraft Co. plant at Quehanna; on Wednesday, at 7 p.m. in room 219, Electrical Engineering; and on Thursday at 7 p.m. in the Mineral Industries Auditorium.

Further details and registration forms are obtainable from W. G. Houser, Ordnance Research Laboratory. The fee for members of I.R.E. is \$20; for non-members, \$25; for student members, \$5; and for student non-members, \$10.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Superior Students Given Attention

IN numerous ways — formally and informally, individually and collectively — the faculty of the University currently recognizes and encourages superior students in more ways than might be generally supposed.

A survey of the several colleges and many departments discloses that in the future even more recognition will be given to top scholarship and the "bright" student will find his collegiate program not only challenging but rewarding beyond the recognition of a dean's list or special notation in the commencement program.

Who are the bright students? Have they been neglected? Do the policies and practices of the University encourage distinction in scholarship?

The Bright Student

The definition of a superior student seems to depend on the use to be made of the definition.

Superiority in potential is differentiated from superiority in performance, although for many purposes the two are considered concurrently.

In some circumstances, judgments of superiority are based not alone on grades, grade point averages, intelligence quotients, or other objective measurements but also on "constructive and critical thinking," special interest or aptitude, and leadership.

Superiority is also expressed in certain skills, without specific reference to grades, in areas such as music, art, speech, and drama.

If grades are considered necessary qualifications for a program, honor, or special treatment, a course grade or grade point average of straight B or better is most frequently mentioned as the minimum standard. In some instances an all-University average of B or better is coupled with a higher average in the students' major field. In the department of electrical engineering, a "Bright Boy" committee, which makes a special point of counseling students at the end of the junior year considers those students with all-University av-

erages of 2.8 or better and with high grades in the three most significant courses in their major field.

Admission to the various Honors Programs set up in the College of the Liberal Arts is based on the judgment of advisors and departmental honors committees and in general students are expected or required to have a B or better average for admission. In order to qualify for honors recognition candidates for honors must maintain a 3.0 average in the non-major subjects in their last two years coupled with at least a 3.5 in the major subjects. Higher averages in the major field would qualify for higher recognition at graduation.

One of the special programs in the College of Engineering and Architecture recognizing superior students is the formal "Engineering Science" curriculum, in which students may enroll upon invitation by the College at the conclusion of the freshman year. In addition to a number of other requirements to be met by the candidate for the program, a grade point average of 3.0 in the freshman year is necessary plus a rating of "good" on mathematics and science aptitude tests.

In the College of Home Economics, one of the outstanding programs is the Merrill-Palmer Award. Although grade point average is considered only one of a number of factors in the selection, generally speaking the all-University average of 3.0 has been maintained by the students prior to selection.

How many superior students are enrolled at Penn State? Again the answer lies in how you define a superior student.

The Liberal Arts Honors Programs are purposely keyed to obtain relatively small groups of top students in each major field. On the other hand, in the department of electrical engineering, the "Bright Boy" committee works with about 30 per cent of its major students in its counseling program.

Statistical information from last year,

supplied by the Office of the Registrar, shows that at the end of the 1958 Spring Semester, about 12 per cent of the freshmen had cumulative all-University averages of 3.0 or better; and 15 per cent of the sophomores, 18 per cent of the juniors, and 19 per cent of the seniors had such averages. A total of 1971 of all students (15.6%) had 3.0 or better cumulative averages.

Only 10 students out of 12,629 had perfect 4.00 averages and no graduating seniors were straight A students throughout their four-year programs.

Special Curriculums for Superior Students

Engineering Science, previously mentioned, is the only complete curriculum designed especially for a superior student, although many programs now in effect or contemplated in the near future approach this formal recognition.

Students selected for this curriculum, which was initiated in 1953, appear to be those best qualified for advanced study, on the basis of their freshman years and their aptitudes. The curriculum is directed to no one field of engineering but rather to heavy emphasis on basic mathematics and sciences in preparation for specialized advance study later. Important features of the program include: an in-training apprenticeship term as a technical elective, in which the student works closely in a laboratory with a senior staff member actively engaged in research; and seminars, with special emphasis on tours of campus laboratories, lectures by research people, and lectures on ethics, etc.

In the three classes from 1956 to 1958, a total of 41 students received bachelor's degrees and 33 have subsequently enrolled for graduate work.

Honors Programs

In many areas of the University, Honors Programs are now being given special attention. While the programs

(Continued on page two)

in effect and under consideration vary in objectives and methods, they have one common thread — give the superior student a chance to demonstrate his superiority by taking work the average student presumably cannot handle.

In some cases, as in those programs now in effect in the College of the Liberal Arts, the objective is to free the superior student from some conventional major courses and requirements in order to give them more time for independent, highly concentrated, and directed study, in their last two or three semesters.

Under a general outline of the honors program worked out by a planning committee in the College, three departments — political science, philosophy, and sociology—had an honors program in effect last semester, and the departments of English, history, and mathematics are initiating their programs this spring.

The details of the programs vary according to the needs of the several departments but in general involve an honors course of 3 to 12 credits, a senior thesis or dissertation, and oral or written examinations. Each student is guided by an advisor. Several programs also include a seminar, three to six credits, to bring together all the honor students for communication, mutual stimulation, and criticism.

Although the College of the Liberal Arts is the first to institute a working Honors Program, most of the other colleges are considering this method of encouraging superior students.

Graduate Courses

For an exceptional senior student, in a number of areas, the scheduling of 500 (graduate) courses is permitted, with the approval of the dean of the Graduate School, if it appears that the student has the capability of benefiting by the course. The Colleges of Mineral Industries, Chemistry and Physics, and Engineering and Architecture grant this privilege.

There is much more emphasis, however, in encouraging outstanding students to think of graduate work in the future. Every College surveyed in some way or other does something in this respect. One purpose of the aforementioned "Bright Boy" Committee in the department of electrical engineering is to counsel the better students on the purposes and possibilities of graduate work, giving them information on fellowships available, graduate schools, and industries where advanced study is encouraged.

The College of Home Economics, in cooperation with Drexel and Temple, conducts an annual Graduate Day, attended by junior and senior students of the three institutions. Here again the emphasis is on motivation for graduate work.

In addition to these broad programs, individual advisors throughout the University are encouraging superior students to think in terms of graduate study and advising on fellowships here and elsewhere.

Special Courses

Particularly on the upperclass level, superior students are being granted the opportunity, in one way or another, to depart from the "average" schedule to obtain special courses.

In a number of areas, students are given permission to take credits by examination if they seem to have the background in the material which would suggest that a more profitable use of the time might be made in another course.

In Mineral Industries, superior students are encouraged to take credits by examination, and up to ten students each year do so. In Home Economics, if it is felt that the student is already sufficiently grounded in elementary foods and/or clothing, she may be exempted from these courses after examination. In some departments of Business Administration, faculty advisors encourage substitution for prerequisite courses for exceptional students. Credit by examination is granted in other areas as well.

Individual study is available in a number of areas. In physics, a special 400 course is provided for directed study by superior students who want to do something unusual. Working with a faculty member in a specialized area of reading and/or laboratory work, he may study atomic physics, biophysics, or any one of a number of subjects. This same principle is, in effect, part of the Honors Program in Liberal Arts.

In Mineral Industries a senior thesis course is provided as a substitute for technical electives, with directed individual study on special problems. In the College of Education, a senior thesis course is limited to certain students by recommendation of the advisors.

Acceleration Or Extra Credits

Although students in many areas are permitted to accelerate their programs, graduating in less than four years regardless of their academic potential or performance, the opportunity to do so exists more often for superior students than for the average or inferior. Acceleration, however, does not seem to be the goal for most Colleges in advising of superior students.

The College of Mineral Industries has formulated a program by which a student (in most major fields) may graduate in three years plus four full summer sessions, but this is not limited to superior students.

The opportunity to take extra credits is available to many students but advisors generally limit the privilege to the proven brighter student. These extra credits may be for either broadening or deepening purposes. Generally only seniors are encouraged to schedule extra credits.

Informal Assistance

In the department of economics, the better students, particularly seniors, are invited, individually, to attend the Economics Faculty Luncheon, at which a formal paper is presented by a faculty member and the student also has

the opportunity to talk to a faculty member informally.

Faculty members of some departments have on occasion stimulated superior students by providing transportation to professional meetings.

In the department of physics, good senior students are given the opportunity to get a taste of teaching by being placed in charge of a laboratory section and even sophomore students are given the opportunity to work with faculty members on research projects.

In these and various other ways, superior students are being given extra opportunities for exposure to faculty members or other professional people in other than formal situations.

The Past And Future

An honors course was instituted in the department of psychology 25 years ago. This course, although not formally limited to those with certain grade point averages, is for practical purposes scheduled only by the brighter students. Individual studies are performed under the guidance of a faculty member.

In addition to the existing Honors Program in Liberal Arts, similar programs are being considered by the Colleges of Agriculture, Home Economics, Education, and perhaps others.

A distinction is made relative to "honor students" and "students graduating with honors." The Board of Trustees recently approved a recommendation of the Senate that students graduating with high grade point averages receive special attention by having the words *with distinction*, *with high distinction*, or *with highest distinction* engraved on their diplomas. This type of recognition is differentiated from special programs for capable and interested students wishing to do more independent work.

Freshman Liberal Arts students who are among the upper ten per cent in the English placement test are admitted directly to English 2, "The Expression of Ideas," a course of writing. The course will be offered to students of other colleges in the fall semester. This appears to be the only formal program for superior freshman students.

In several departments, the experimental "Pyramid Project," in which senior leaders help underclassmen, is another method by which outstanding students are being recognized.

It is apparent that an increasing number of faculty members are giving special attention to the superior student, but . . .

Says Dr. J. W. Cohen, University of Colorado, who is director of the Inter-University Committee on the Superior Student: "Until now we in the United States have been woefully deficient in the amount of time and money that we have spent on the superior student . . . As a consequence, we have mishandled the ablest students at all levels of the educational process. In short, we have come perilously close to dereliction in the pursuit of excellence."

Items of Interest

• Lectures

Stanley Weintraub, English, Jan. 23 at Beth Jacob Synagogue, Philadelphia, on "Charles Dickens' Jewish Heroes and Villains." March 6 at Miami University, Oxford, Ohio, on "The Literary Apprenticeship of Bernard Shaw." At Grolier Club, New York, in last week of May, for The Show Society of America, on "Apostate Apostle: H. L. Menckens as Shavophile and Shavophobe."

• Elected or Appointed

H. A. Panofsky, meteorology, to three-year term on the 17-man council of American Meteorological Society.

Hans Neuberger, meteorology, chairman of the Fellowship Committee of the Alfred P. Sloan Foundation.

G. F. Deasy, geography, consultant in physical geography to the editor-in-chief of Collier's Encyclopedia.

J. G. Rayback, history and labor education, editor of "The Historian," quarterly of Phi Alpha Theta, national history honorary fraternity.

• Books

Jessie Bernard, Helen E. Buchanan, and W. M. Smith, Jr., "Dating, Mating, and Marriage," published by Howard Allen, Inc., Cleveland. First of a series in anthropology and sociology, under editorship of Dr. George E. Simpson, Oberlin College.

E. L. Mattil, art education, textbook titled, "Meaning in Crafts," published by Prentice-Hall, Inc.

Reception To Open Seligmann Exhibit

A reception and lecture will mark the opening of an exhibition of paintings by the Swiss surrealist Kurt Seligmann on Sunday, Feb. 8, from 3 to 5 p.m. in the Hetzel Union Building gallery. The public is invited to both the reception and lecture, which Seligmann will present. The exhibition will consist of 18 paintings by Seligmann plus a show of 27 lithographs from Max Ernst's series, "History Naturelle of 1926."

Zoretich, Pappas Exhibit Paintings At Corcoran

George S. Zoretich, associate professor of art and associate head of the department of art, and Dr. George Pappas, assistant professor of art education, are represented in the 26th Biennial Exhibition of Painting at the Corcoran Gallery of Art, Washington, D.C.

The exhibition will continue until Mar. 8.

The painting by Zoretich, titled "Ascension," was included in the Faculty Exhibition at the HUB last October. Dr. Pappas' work is titled "Summer Coast." Both paintings are included in the juried section of the exhibition, which is composed of 53 paintings chosen from 1,600 entries by a jury.

Leaves Of Absence Approved For Four

Leaves of absence for the following faculty members were approved by the Board of Trustees at its recent meeting:

✓ Nora E. Wittman, assistant professor of German, from Feb. 1 to June 30, to devote her time to the completion of a German reader for children; revise a book, "Brief German Reference Grammar"; write articles and do research on the Foreign Language in the Elementary School program she has been conducting.

✓ Dr. Marsh W. White, professor of physics, Feb. 1 to June 30, to revise the textbook, "Physics for Science and Engineering," of which he is the co-author with Dr. R. L. Weber and Dr. K. V. Manning. He will also travel.

✓ Joseph R. Reed, instructor in civil engineering, whose leave for military service as an officer with the Air Force, has been extended from Feb. 1 to June 30.

✓ Dr. Louis Dupree, associate professor of anthropology, for one year beginning in June to enable him to renew his archaeological work in Afghanistan.

Center Stage Show Begins Next Friday

J. B. Priestley's unusual drama, "Music By Night," will be presented by the Penn State Players at Center Stage beginning on Friday, Feb. 13 and continuing each Friday and Saturday evening through Feb. 28, at 8 p.m.

The play is one of England's most popular plays but is rarely performed in the United States. It is described as an excursion into the minds of men and the effect music can have on them.

The play is the first in the Spring Semester program of Players, to include two other productions at Center Stage and one in Schwab Auditorium. The latter is "The Boy Friend," by Sandy Wilson, and is scheduled for May 7, 8, and 9 as the Mother's Day week-end feature.

Approve Plan To Designate Academic Record On Diploma

The Board of Trustees has approved the recommendation of the Senate to provide for recognition of students who graduate with high averages by a special notation on their diplomas.

The plan provides that students graduating with all-University average of 3.80 or higher will be designated "with highest distinction," those with 3.60 to 3.79, "with high distinction," and 3.40 to 3.59 "with distinction."

Directories Available

New faculty members and new students may purchase copies of the Faculty Directory at the main desk of the Hetzel Union Building and copies of the Student Directory at the Book Exchange, also in the Hetzel Union Building.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

Feb. 15—Jewish and Christian Services.
Feb. 22—Dr. Samuel D. Proctor, president, Virginia Union University, Richmond, Va.
Mar. 1—Dr. Luther H. Harshbarger, University chaplain.

CONCERTS

Feb. 13—Stuttgart Chamber Orchestra, Artists Series.
Feb. 21—Philadelphia Orchestra, Artists Series.
Mar. 1—Artists Series program by Jussi Bjoerling
Feb. 18—Austin Conradi, piano concert presented by the department of music.

ATHLETICS

Feb. 14—Wrestling, versus Maryland, and Basketball, versus Rutgers.
Feb. 24—Basketball, versus Lehigh.
Feb. 27—Basketball, versus Carnegie Tech.

LECTURES

Feb. 17—Graduate School Series. Andrew Cordier, historian-executive of the United Nations.
Feb. 26—Clement Attlee, former prime minister of Great Britain on "World Government or World Chaos."
Mar. 3—Graduate School Lecture by Dr. Perry W. Wilson, bacteriologist, University of Wisconsin.

Altoona Students To Open Five O'Clock Theatre

The first production in Five O'Clock Theatre in the Spring Semester will be given on Tuesday, Feb. 5 at 5 p.m. in the Little Theatre in Old Main.

The play was written, directed, and produced by Jack Holleran, instructor in chemistry, Altoona Campus, and will be given by a group of Altoona students. The play is titled, "Time Was."

Home Ec Food Service Resumes Tuesday

Food service by classes in hotel and institution administration will resume for the Spring Semester on Tuesday, Feb. 10. Cafeteria luncheon will be served daily Tuesday through Friday from 11:50 a.m. to 12:30 p.m. in the Maple Room and Cafeteria. Dinner with table service will be served in the Maple Room Tuesday through Thursday, from 5:30 to 6:30 p.m.

Graduate Seminar To Bring Four Visiting Professors

A graduate seminar in Agricultural Economics will bring four visiting professors to the campus this semester.

Dr. John Timmons, Iowa State College, will be here Feb. 23 to 27 and will speak on "Population—Resource Interrelationships."

Dr. Charles Hardin, University of Chicago, Mar. 16-20, on the subject "Agriculture and Agricultural Policy in American Politics."

Dr. James Maddox, North Carolina State College, Apr. 20-24, on the subject, "Economic Problems of Underdeveloped Areas."

Dr. Glenn Johnson, Michigan State University, on "Decision Making by Agricultural Firms."

Calendar

Friday, Feb. 6

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Paul Weisz, research and development department, Socony-Mobil Laboratories, on "Diffusion Effects in Porous Reaction Systems."

Fluid Mechanics Seminar, 4:15 p.m., Room 105, Mechanical Engineering. Darwin W. Clutter, aerodynamicist, Douglas Aircraft Co., on "New Techniques of Flow Visualization Using Water as the Working Medium."

Saturday, Feb. 7

Gymnastics, versus Army, 2 p.m., Rec Hall. Basketball, versus Syracuse, 8 p.m., Rec Hall.

Sunday, Feb. 8

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Rev. Donald Cutler.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Robert McAfee Brown, Union Theological Seminary.

Reception and lecture on opening of exhibit of paintings by Kurt Seligmann, 3-5 p.m., Hetzel Union Building art gallery.

Monday, Feb. 9

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. E. F. Osborn, dean, College of Mineral Industries, on "Research at High Temperatures, High Pressures, High Altitudes, and at the Ocean Bottom."

Artists Series program by The Concordia Choir, 8:30 p.m., Schwab Auditorium.

American Statistical Association meeting, 5 p.m., Room 201, Willard Building. Dr. James B. Bartoo, associate professor of mathematics, on "Assumptions Underlying Concomitant Variates in Experimental Design."

Linear Programming Seminar, 11 a.m. to 1 p.m., Room 101, Hunt Building.

Faculty Meeting, College of Physical Education and Athletics, 7 p.m., Room 241, Recreation Building.

Tuesday, Feb. 10

Meeting of Penn State chapter, American Society for Metals, 7:30 p.m., Mineral Industries Auditorium. Dr. R. H. Aborn, director, Edgar C. Bain Laboratory, U.S. Steel Corp., on "Recent Advance in Metals Research."

Home Economics Research Committee Seminar, 12:30 p.m., dining room "A", Hetzel Union Building. Dr. Alberta Siegel, on "The Permissive Adult and Aggression in Children."

Thursday, Feb. 12

Faculty meeting, College of the Liberal Arts, 4:15 p.m., Room 121, Sparks Building.

Faculty meeting, College of Home Economics, 4:15 p.m., Room 14, Home Economics Building.

Chemistry Colloquium, 1:15 p.m., Room 119, Osmond Lab. Dr. Leo H. Sommer, associate professor of chemistry, on "The Stereochemistry of Substitute Reactions at Silicon: Optically Active Organosilicon Compounds."

Friday, Feb. 13

Players production of "Music By Night," Center Stage, 8 p.m., opening night. (Also Saturday, and following three weekends.)

Faculty meeting, College of Agriculture, 4:10 p.m., Room 109, Armsby Building.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Walter G. Zinman, physical chemist, Aero Sciences Laboratory, General Electric Missile and Ordnance System Department, on "The Reaction of Carbon and Active (Atomic) Nitrogen."

Credit Union To Hold Organization Meeting

An organizational meeting will be held by the newly chartered University Park Federal Credit Union at 8 p.m., Wednesday, Feb. 11, in Room 217, Hetzel Union Building.

All staff and faculty members are invited to attend the meeting, at which elections will be held for the board of directors and members of the credit and supervisory committees. Only University employees working at or near the University Park campus are eligible for membership and to vote for officers.

Interim Policy Adopted On Television Sponsors

University personnel seeking guidance on the University's attitude toward sponsored radio and television programming hereafter will be referred to a newly-approved statement of policy.

President Eric A. Walker, in approving the statement, said it would obtain until such time as further study would indicate need for change. He added that the policy would undergo continued study.

"In the past," the President noted, "the University has preferred to participate only in unsponsored programs of a public service nature. This still remains our first choice but this new policy at least opens the way to consideration of sponsored programming."

During the period of continued study, the University will "actively seek the cooperation and support of radio and television outlets through authorized personnel" and "actively participate in approved programming on a non-commercial or sustaining basis."

But where desirable programming is not available on a non-commercial basis, but is available on a sponsored or University-purchased basis, the new policy will refer the "advisability of participation" to the University's Administrative Committee on Public Relations. This committee, in turn, will recommend a course of action to the President.

The statement adds that individuals appearing on radio and television as private persons, and not as representatives of the University or any of its divisions, will be expected to adhere to the same standards required of the University generally.

These requirements include the proviso that "the subject matter to be discussed be within the area of academic competence and responsibility of the personnel involved" and that "the subject matter and the manner of its presentation conform to accepted standards of academic integrity and general decorum."

The statement of policy also notes that University personnel may engage in no direct endorsement of the sponsor or product, and that the University may not be associated with either the product or the sponsor in text or pictorial illustration.

Programming Seminars Scheduled Each Monday

The second in a series of lunch-time seminars on the economic applications of linear programming will be held on Monday, Feb. 9 from 11 a.m. to 1 p.m. in Room 101, Hunt Building.

Graduate students and faculty members are invited to attend this series of seminars which will be held weekly. The book "Linear Programming and Economic Analysis," by Dorfman, Samuelson, and Solow will be used as a basis. The text will be supplemented with lectures.

Important Social Security Notice to Regular Full-Time University Employees

Are You in Either of These Two Groups?

Group 1: Regular Employees who Do NOT Have Social Security

If you are a full-time regular employee and don't have Social Security coverage, it's now possible for you to get it. And you can get it whether or not you're a member of the Retirement System.

Group 2: Regular Employees Who Have Social Security But Are NOT Covered Back to January 1, 1956

If, in order to get Social Security coverage, you joined the State Employee's Retirement System on or after September 1, 1957, the law at that time did not permit you to get Social Security coverage for any University earnings before that date.

The law has now been changed so that you may, if you wish, obtain credit back to January 1, 1956, or date of hire if later.

If you are in either Group 1 or Group 2 as described above and are interested in taking advantage of this opportunity, you are invited to attend either of two meetings. These meetings will be held in 124 Sparks Building on February 10, 1959, at 4:00 p.m. and February 11, 1959, at 7:00 p.m. Since the same information will be given at each meeting you would need to attend only one of them.

If you cannot attend either meeting, please write or call the Employee Benefits Division, 304 Old Main Building, extension 443.

Artists Series Tickets On Sale Today At HUB

Tickets for the Artists Series performance by The Concordia Choir will be on sale to non-students today through Sunday at the Hetzel Union Building desk. The Choir will give its concert in Schwab Auditorium at 8:30 p.m. on Monday, Feb. 9.

Policy Announced On Injuries, Ambulance

Revision of policies relative to treatment of injuries at the University hospital and also use of the ambulance in emergency has been announced by A. E. Diem, vice-president for business administration.

Effective immediately, if an employee is injured in connection with his work, however slightly, he will be given immediate attention. If the injury requires professional medical attention, the injured person will report to the Health Center for treatment. If medical attention beyond the first visit to the Health Center is required, the patient will be referred to a private practitioner.

Accident reports, Diem points out, must be completed for all employee accidents by the respective department personnel and are to be signed by the supervisor of the injured employee.

The campus ambulance, in case of emergency, will be used for any person — employee, student, or visitor — injured on the campus and requiring emergency attention. The Health Center will be available also for such emergencies.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

DARS' Research, Services Extend Into Many Areas

In only 18 months of operation the Division of Academic Research and Services has proved a wise and promising "investment" for the University.

A direct result of Senate action, taken in 1955, recommending the establishment of a "bureau of institutional research," DARS was also the outgrowth of the Instructional Research Program which had done research in several academic areas, including the use of films and television for instructional purposes.

Because of its earlier association with film research and subsequently instructional television, DARS has been thought of largely, though incorrectly, in relation to this type of research and service.

"The real fact is," says Dr. C. R. Carpenter, director of DARS, "that we do a lot of research and provide many services that have no connection at all with films, television, or related subjects, even though we are also still working in these fields.

"Right now, for example, we are concerned with the Pyramid Project, a study designed to explore how students help each other to a better education. This is a project aided by the Fund for the Advancement of Education, and it is unique in this country."

The "Pyramid Project" and a number of other studies are directed toward solving some of the basic instructional problems of the entire University, not just for the present but also for some years in the future, and for higher education in the nation generally.

As important as such research is, however, it is only a part of the overall job of DARS, to which academic offices, as well as those on the administrative level, are turning with increasing frequency for services not heretofore available.

Some of these services are related to

the television and film facilities which have served various research purposes. On the other hand, DARS personnel have made surveys, conducted national conferences, acted in an advisory capacity to many organizations, assisted in determining the methodology for experiments, analyzed data, and assisted in developing tests for a number of faculty members and departments. Dr. W. S. Ray, associate professor of psychology, who works part-time with the division, does much of the work in developing plans for experiments. Statistical analyses of the data gathered by the Division is under the supervision of Dr. F. R. Hartman, research associate.

"These services, as well as the research we're doing," says Leslie P. Greenhill, associate director of DARS, "illustrate the point that we are a University-wide organization. We not only initiate projects or studies ourselves but also respond to requests from other areas of the University for such studies."

In addition to the television research and the "Pyramid Project" (the latter directed by Robert H. Davage, assistant professor of psychology) currently underway, DARS staff members have cooperated in such projects as: the study of Harvey White series of physics films; evaluation of audio-visual methods in teaching large sections of auditing; and the developing of proposals for grants under the National Defense Education Act.

Dr. Robert E. Stover, assistant professor of psychology attached to DARS part time, is currently concerned with a project titled "Development of an Effective Method for Assessing Professional Performances and Development of Faculty Members." This project is aimed at the development of procedures which will be useful to departments and

colleges in reaching decisions about promotions and advancement.

Another project underway, with Dr. James B. Bartoo, associate professor of mathematics as leader, is titled "A Study of the Applicability and Predicted Need for Computer Services on the University Campus," and is being done for the Computer Policy Committee.

These studies are illustrations of DARS' research and services for the University as a whole, related to future planning.

"Of additional interest in this respect," says Dr. Carpenter, "are three studies we're making for the University Development Committee."

These are (1) definition of issues and problems of converting the University to full capacity operation; (2) development of methods for planning academic space and facilities; and (3) analysis of the problem of faculty rank structure and requirements by areas.

"As you can see from the description of the studies," Dr. Carpenter adds, "we are concerned mainly with basic and broad rather than specific, detailed questions. We believe you can't get answers until you first define the problem."

"I might point out that in these, as well as other studies, if it is advisable to do so, we will make contact with other universities and organizations for their experiences, methods, and findings."

Television productions emanating from Sparks and Boucke Buildings continue to grow and serve the campus and the public. H. Dennis Sherk and Luther F. Kepler, Jr., television coordinators, and William F. Pohts, chief engineer, were responsible with their staffs last semester for putting on closed circuit television a total of 55 hours of class work each week, including 22 hours in Boucke in seven classes; 24 hours in Sparks in ten classes; and nine hours in three different laboratories.

"A total of 5,443 students were involved in these courses," says Sherk, ranging from a total of 46 in the archae-

(Continued on page three)

Senate Minutes

Minutes of the Meeting of February 5, 1959

The University Senate met at 4:15 p.m., on Thursday, February 5, 1959, in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the January 8, 1959, meeting were approved as printed in the Faculty Bulletin for January 30, 1959. 188 senators signed the roll.

Communications From University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: R. H. Wherry (A. L. Williams), E. R. Queer (E. R. McLaughlin) and E. T. Williams (W. A. Lloyd).

New Senators

Miss Ann Schultz will replace Mrs. Christine Salmon as an elected member in the College of Home Economics for the balance of the 1958-59 term. H. J. Read will again be active as an elected senator from the College of Mineral Industries for the term 1958-1961. Arnulf Muan had been serving during his absence. Miss Joan Nessler will replace Miss Marie Haidt as an elected member from the College of Physical Education and Athletics for the second semester of the 1958-59 term.

From Robert G. Bernreuter, Secretary to the Senate:

At the December meeting of the Senate, Professor Mather suggested that Senate minutes be published separately from but distributed with the Faculty Bulletin in order that they might be filed separately. The expense of printing the minutes separately appears to be too great to justify this practice; however, the Secretary of the Senate wishes to inform the members of the Senate that extra copies of the Faculty Bulletin, which may be filed as Senate Minutes, may be obtained by addressing a request to the Department of Public Information, 313 Old Main.

From L. E. Dennis, Chairman of the Administrative Committee on Procedures:

Upon the instructions of the Administrative Committee on Procedures I am forwarding to you for referral to the appropriate Senate Committee recommendations for changes in Rule L-4 and Rule I-9e of the Senate Regulations for Undergraduate Students, 1958-59. It is recommended that Rule L-4 be rewritten so as to omit the words "for work done in absentia." The rule would then read: "Credit by examination may be granted to students who meet the requirements of the course taken, and, after entrance requirements have been met, such credits shall be accepted for a degree." It is recommended that Rule I-9e be changed to read: "The given course in which the evening examination is desired is a multiple section course." This will make it possible for multiple section courses which have sections meeting at the same hour (as is true of several television courses) to hold evening examinations.

President Walker referred this communication to the Senate Committee on Academic Standards and asked that they report to the Senate at the next meeting if possible.

From J. S. Bowman, Chairman of English Composition the following:

At its meeting May 29, 1958, the University Senate approved the recommendation of the Committee on Courses of Study that no student be permitted to repeat English 0. Since administrative officers of some of the Colleges have raised questions about the implementation of this rule and its consequences, it seems useful to clarify the procedure that the Department of English intends to follow beginning with the spring semester this year.

No student who has failed English 0 will be permitted to schedule the course unless his failure occurred before the fall semester of 1958, the first semester for which the rule was effective.

As in the past, no student will be permitted to schedule English 1 unless he has passed the English placement test or has passed English 0.

A student who is not permitted to repeat English 0 may repeat the final examination in English 0, which is regularly scheduled during examination week each semester. To be eligible for this examination, however, such a student must regis-

ter with the Department of English no later than December 1 for the fall semester and no later than May 1 for the spring semester. This advance notice is necessary if adequate examination room is to be provided. What the student does to prepare himself for this examination is his responsibility. If his examination score is high enough to admit him to English 1, he is permitted to schedule that course the following semester.

Early in the spring semester the Department of English intends to inform the Dean of each College of these details.

From L. E. Dennis for the Board of Trustees:

At its meeting on January 24, 1959, the Board of Trustees of the University adopted a report from the Committee on Instruction recommending approval of the policy dealing with recognition of exceptional academic attainment adopted by the University Senate at its meeting January 8, 1959. Henceforth, therefore, all diplomas of those students whose averages fall within the ranges specified by the Senate will carry the appropriate designation "with distinction," "with high distinction," or "with highest distinction," as the case may be.

Reports of Standing Committees

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A." He commented on the fact that the Committee would be reviewing the eight courses in General Education this Spring and asked that if any member of the Faculty had any comments, criticisms, or suggestions that they be forwarded to him before the end of February. He also reminded the members of the Senate that April 1 is the deadline for course and curriculum material to be received by the Committee for inclusion in the next issue of the catalog. Mr. Shelley then moved adoption of proposals 101, 102, 103, 104, 106, 109, and 113 as presented. The motion was seconded and passed. The complete report is on file in the office of the secretary.

R. W. Stone, Chairman of the SENATE COMMITTEE ON RESEARCH, presented the report which had been distributed with the agenda as Appendix "B." This report contained the following proposal as a recommendation to the University Administration:

It is proposed that the University make available as a general policy in the various Colleges to a certain limited number of highly qualified individuals the position of "Evan Pugh Professor."

The duties of said "Evan Pugh Professors" shall be primarily, prosecution, direction and encouragement of research in their particular fields of specialization. In addition, an Evan Pugh Professor may provide limited instruction in his or her specialty to graduate students and advanced undergraduates.

The report also listed the following Qualifications for Appointment (Minimal) and Approval of Prospective Appointees:

- Qualifications for Appointment (Minimal):
- (a) The candidate should hold the position of Professor in this or other University of comparable standing.
 - (b) In the case of candidates having other than University background for their research experience, positions equivalent to University Professorships shall constitute qualifications under (a) above.
 - (c) The candidates should have demonstrated by his published works a high degree of competence in his special field.
 - (d) The candidate should show a high degree of promise with regard to his productivity of research at this University.

Approval of Prospective Appointees:

The candidate shall be nominated by the head of the Department in which he will perform his major duties. He will be recommended for appointment by the Dean of his College to a Board of Review set up specially to consider the qualifications of candidates and desirability of establishing said Evan Pugh Professorships.

The Board of Review shall consist of the following University Personnel: The Vice-President for Research, the Dean of the Graduate School, Deans of the Colleges and holders of Evan Pugh Professorships. In making their recommendations for appointment of Evan Pugh Professors, the Board of Review is required to obtain and consider the opinion of qualified experts outside of the University regarding the qualifications of the candidate.

Upon approval of a candidate by the Board of Review, the Vice-President for Research shall recommend the appointment to the President of the University.

Mr. Stone moved the adoption of the report. The motion was seconded. W. C. Fernelius objected to the implication that an "Evan Pugh Professor" could not instruct

freshmen students. He moved that the word "advanced" in the last line of paragraph two be deleted. The motion was seconded and passed. D. H. McKinley moved that the words "to graduate students and undergraduates" in the last line of paragraph two be deleted. The motion was seconded and passed. The motion to adopt the report as amended was passed. The report is on file in the office of the secretary.

R. E. Larson, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report on a "policy statement concerning honors programs for superior students" which had been distributed with the agenda as Appendix "C" and stated that the Committee was substituting the following for the last paragraph:

While the colleges and academic departments are responsible for creating their own honors programs and establishing specific standards, the responsibility for establishing overall minimum standards for the awarding of an honors diploma is vested in the Senate Committee on Academic Standards.

Mr. Larson then moved the adoption of the report as revised. The motion was seconded and passed. The complete report is as follows:

It is the policy of The Pennsylvania State University to foster and encourage superior scholarship. As a means of developing outstanding and independent student achievement, the Colleges of the University provide programs leading to the baccalaureate degree with honors for the student having exceptional intellectual ability. These programs are designed to encourage the student to work to maximum capacity, and to enrich his educational experience in breadth as well as depth, by permitting him to have access to any course for which he is qualified, to pursue on an individual basis studies which conventionally require class attendance, and, with the approval of his adviser and Dean, to substitute independent study for required courses.

Upon completion of an honors program for the baccalaureate degree, as certified by the faculty and the Dean of the College in which he is enrolled, the student is awarded an honors diploma in recognition of his exceptional accomplishments.

While the colleges and academic departments are responsible for creating their own honors programs and establishing specific standards, the responsibility for establishing overall minimum standards for the awarding of an honors diploma is vested in the Senate Committee on Academic Standards.

Mr. Larson presented the report of the SENATE COMMITTEE ON EDUCATIONAL POLICY, which had been distributed with the agenda as Appendix "D" regarding "the basic physical education program at Penn State being elective for veterans." He moved adoption of the report which reaffirmed the several previous actions of the Senate Committee on Academic Standards that "existing Senate policies and regulations concerning physical education apply to all students." The motion was seconded. The report is as follows:

At the meeting of the University Senate on November 6th, the matter of "the basic physical education program at Penn State being elective for veterans" was referred to the Senate Committee on Educational Policy.

After careful study and discussion of the specific problem, the committee voted that "existing Senate policies and regulations concerning physical education apply to all students."

This action reaffirms the several previous sections of the Senate Committee on Academic Standards. The committee decision was that the fact of military service is irrelevant to meeting the general education objective of the University pertaining to physical education; and that the existing regulations and policies adequately cover individual instances of greater age, physical disability and demonstrated competence.

Joseph Jordan stated that it was his idea at the November 6th meeting of the Senate to refer the whole question of the physical education program to the Senate Committee on Educational Policy. Mr. Jordan moved that the matter be referred back to the Committee on Educational Policy to study the philosophy of requiring physical education for Freshman and Sophomore, but not for Junior and Senior students. President Walker charged the Senate Committee on Educational Policy to study this matter. Mr. Jordan withdrew his motion. The motion to adopt the report of the Educational Policy Committee was passed.

Mr. Larson called attention to the Addendum to Appendix "C" which had been distributed with the agenda and asked that on page 2, in the last paragraph, the following sentence be deleted:

The selection of entering freshmen would

be aided by the Division of Counseling's establishing contact with high schools in order to learn as early as possible which students might be potential candidates for the honors program at the University.

With the deletion of this sentence the word "likewise" in the second sentence following should also be deleted.

Mr. Larson moved that the Addendum, as corrected, and the Informational Report of the Subcommittee on Health and Physical Education of the Senate Educational Policy Committee, which had been distributed at the meeting, be received by the Senate. The motion was seconded and passed. These two reports are on file in the office of the secretary.

F. T. Hall, Chairman of the SENATE COMMITTEE ON RULES, informed the Senate of a rewording of Rule I-10 which had been referred to the Committee by the Senate at its meeting on December 4, 1958. The report contained an editorial change in the revised form of Rule I-10. I-10 will now read:

I-10. It shall be the policy of the Pennsylvania State University to encourage learning among its students by authorizing their attendance at any class, with the permission of the instructor, even though they are not officially enrolled in the course for credit or for audit.

However, if a student wishes to audit a course officially and have this fact appear on his transcript, he must enter that course on his schedule with the symbol "Aud" shown under "credits."

Mr. Hall then moved adoption of the recommendation to change the By-Laws, Article II, Section 1 by adding:

Faculty Affairs — one member from each College and the Graduate School with the majority being from the elected membership of the Senate.

and by adding to Article II, Section 2:

Faculty Affairs — It shall be the general responsibility of the Committee to advise the Senate on matters of policy concerning faculty affairs.

The motion was seconded. In the discussion R. W. Brewster moved that Article II, Section 1 be amended by adding the words "including the chairman" after the word "majority." The motion was seconded and passed. Article II, Section 1 will now read:

Faculty Affairs — one member from each College and the Graduate School with the majority, including the chairman, being from the elected membership of the Senate.

Since this change in the By-Laws required a two-thirds vote President Walker appointed F. M. Coombs and Hummel Fishburn as tellers. The motion to change Article II, Sections 1 and 2 was passed. The report of the Committee is on file in the office of the secretary.

Comments and Recommendations For the Good of The University

E. P. Nye referred to Rule O-3 concerning the proctoring of examinations. He stated that some examinations are being given without adequate proctoring which does not meet the standards set by the Honors Council. He called attention of the deans and asked that they remedy the situation.

B. A. Whisler called attention to what he considered to be a weakness in Rule P-12 which does not provide for the dropping of students in the odd semesters, and suggested that the appropriate committee of the Senate study this matter.

The next regular meeting of the Senate will be on March 5, 1959 in Room 121 Sparks Building. The agenda will be distributed on February 19, 1959.

The meeting adjourned at 5:12 p.m.

Robert G. Bernreuter
Secretary

AAUP To Hear Ferguson

Dr. John H. Ferguson, professor of political science who served as Secretary of Administration and Budget in the cabinet of Gov. George M. Leader, will be the speaker at the February meeting of the Penn State chapter of the American Association of University Professors.

The meeting will be held on Monday, Feb. 16 at 8 p.m. in Room 203, Willard Building. Dr. Ferguson will speak on the subject, "State Government, Problems and Prospects."

DARS —

(Continued from page one)

ology course to 618 in the sociology course."

In addition to closed circuit work, the television facilities of DARS are used for broadcasts, via WFBG-TV, for about 12 hours per week. Last semester, philosophy, psychology, and zoology, totalling eight hours, were telecast regularly. The Farm, Home, and Garden telecast by Agricultural and Home Economics Extension is on the air 2½ hours per week. For the department of public information two half-hour programs have been initiated recently, one weekly and one bi-weekly, and the "Penn State: Its Men and Ideas" telecast, will continue three times weekly for ten minutes each telecast. Special telecasts, such as the recent "Religious Ideas" series by the Center for Continuing Liberal Education, are also developed with the aid of DARS staff members.

A service not yet fully developed but which has considerable promise is that of film making. D. P. Duvall, supervisor of instruction materials production, points out that the motion picture facilities constitute probably the most complete studio on a university campus anywhere for production of instructional and research films.

"The service," Duvall explains, "can be extremely useful to record or document certain events or experiments which are difficult to duplicate.

"The policy under which we operate is to charge the department only for the cost of film used and laboratory services, with all overhead costs being carried by the division.

"Therefore it is extremely cheap to

capture a good, short experiment or demonstration on film and use this instead of trying to duplicate the experiment, perhaps with many failures, each time the class requires it."

The equipment, Duvall explains further, is portable so that filming can be done on location as well as at the studio. Sound or silent, color, or black and white, films are produced, with only minor limitations imposed in the area of high-speed work.

DARS undertakes a limited amount of government contract work having relevance to the University's program. Research has been done for the Navy on the development and evaluation of a simple television system for military training. Another military project involves the recording of courses or segments of courses of instruction on film or tape and slides for subsequent use. The study of problems of this type may have important implications for our academic programs in the future. Most of the field work on these military projects is coordinated by Joseph A. Mur-nin.

From DARS' research have come a number of imposing publications, including its several reports on television instruction, which have been well received and widely used in this country and abroad. A study on class size in relation to academic achievement has also resulted in a number of reports and papers. An information center is being developed by the division containing many reports of research on academic and instructional matters.

"It is our feeling," concludes Dr. Carpenter, "that there is still much research to be done at the collegiate level especially on instructional problems and we expect to help in many ways in this area of research."

Loan Funds, Fellowships Provided Under NDE Act

In separate actions, the University has been allocated the sum of \$24,120 for student loans and has been granted three graduate fellowships, under provisions of the National Defense Education Act of 1958.

Loans will be available to students during the current semester. Applications for loans have virtually equalled this total already.

The fellowships will provide stipends of \$2,000, \$2,200, or \$2,400 for the first, second, or third years of graduate work, plus \$400 for each dependent of the fellow.

Family Life Subject Of Television Programs

The television program, "Penn State: Its Men and Ideas," continues this week on the general theme of family life with Dr. Marjorie East, head of the department of home economics education, and Warren S. Smith, associate professor of theatre arts, discussing family life in literature.

The program is seen at 9:50 a.m., Monday, Wednesday, and Friday over WFBG-TV, Altoona, Channel 10.

Recreation For Faculty Women Planned By Phys Ed

The Women's Department of the College of Physical Education and Athletics is prepared to provide recreational activities for women faculty members this semester, E. B. McCoy, dean of the College has announced.

A meeting to plan these activities, which may include bowling, swimming, badminton, calisthenics, etc., will be held at 5:15 p.m., Tuesday, Feb. 17 in the main lounge of White Hall to give women faculty members an opportunity to state their interests. Those not able to attend the meeting may call the women's department in White Hall to learn when the activities will be scheduled.

Psychiatrist Named To Health Center Staff

Dr. John D. Walmer, graduate of Lebanon Valley College, Temple University Medical School, and since 1950, a member of the staff of the Veterans Administration hospital in Lebanon, Pa., has been named staff psychiatrist at the Ritenour Health Center. He will also serve on the department of psychology staff.

Calendar

Friday, Feb. 13

Players production of "Music By Night," Center Stage, 8 p.m., opening night. (Also Saturday, and following three weekends.)

Faculty meeting, College of Agriculture, 4:10 p.m., Room 109, Armsby Building.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Walter G. Zinnman, physical chemist, Aero Sciences Laboratory, General Electric Missile and Ordnance System Department, on "The Reaction of Carbon and Active (Atomic) Nitrogen."

Saturday, Feb. 14

Players production of "Music by Night," Center Stage, 8 p.m.

Wrestling, versus Maryland, 7 p.m., Rec Hall. Followed by basketball, versus Rutgers.

Sunday, Feb. 15

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Reverend Hal Lelper.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Jewish and Christian Services.

Hillel Foundation program of three films, 7:30 p.m., Hillel Auditorium. Films are "Off the Beaten Track in Israel," "Religion in Israel," and a newsreel concerning Israel.

Monday, Feb. 16

Linear Programming Seminar, 11 a.m. to 1 p.m., Room 101, Hunt Building. Dr. Donald T. Laird, on "The Simplex Method."

AAUP meeting, 203 Willard Building, 8 p.m. Dr. John H. Ferguson, professor of political science, on "State Government, Problems and Prospects."

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. University Readers in program of selections of Mark Twain, Stephen Vincent Benet, and Robert Frost.

Engineering Mechanics Seminar, every Monday, 4:15 p.m., Room 203 Engineering "A". Dr. E. R. Fitzgerald, associate professor of physics, on "Atomic Structures and Mechanical Properties of Solids."

American Statistical Association meeting, 5 p.m., Room 201, Willard Building. Dr. James B. Bartoo, associate professor of mathematics, on "Assumptions Underlying Concomitant Variates in Experimental Design."

Mineral Economics Seminar, 4:10 p.m., Room 121, Mineral Industries Building. J. N. Hoffman, instructor in mineral economics, on "A Summary of Taconite Development by Companies."

Tuesday, Feb. 17

Lecture by Dr. Andrew W. Cordier, sponsored by the Graduate School Lecture Series and Committee on International Understanding, 8 p.m., Room 121, Sparks, on "The United Nations in a Revolutionary World."

Physics Colloquium, 4:15 p.m., Room 117, Osmond Lab. Dr. Aaron Posner, research associate, American Dental Association, National Bureau of Standards, on "Crystallographic and Chemical Nature of Inorganic Phase of Bones and Teeth."

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. Dr. O. H. Sauerlender, associate professor of economics, on "Level of Aspiration and Classical Utility Analysis."

Meeting of Central Penna. Section of American Chemical Society, 8 p.m., Room 111, Boucke Building. Dr. William E. McEwen, University of Kansas, "Reduction of Organic Compounds by Lower Valent Species of Active Metals Anodically Generated."

Wednesday, Feb. 18

Piano concert by Austin Conradi, 8:30 p.m., Schwab Auditorium, sponsored by the department of music.

University Christian Association seminar, "The Responsible University in an Age of Crisis," 8 p.m., Helen Eakin Eisenhower Chapel. Dr. J. J. Fritz, chemistry, and E. E. Dodson, mechanical engineering, on "The Christian's Responsibility in the Contemporary University Situation."

Forestry Convocation, 11 a.m., Room 121, Sparks Building. Otto G. Koenig, forester, Division of Information and Education, U.S. Forest Service, Upper Darby, Pa.

Thursday, Feb. 19

Lecture by The Reverend William G. Ryan, president of Seton Hill College, sponsored by the Faculty Committee on Religious Studies, 8 p.m., Room 121, Sparks, on "The Meaning of History According to St. Augustine."

Central Pennsylvania Chapter, Society for Industrial and Applied Mathematics, 8 p.m., 203 Willard Building. Dr. Eugene Ackerman, associate professor of physics, on "Mathematics of Kinetic Processes."

Dr. Cordier To Speak On United Nations

Dr. Andrew W. Cordier, executive assistant to the Secretary-General of the United Nations, will speak at 8 p.m., Tuesday, Feb. 17, in Room 121, Sparks, co-sponsored by the Graduate School Lecture Series and the Committee on International Understanding.

The topic will be, "The United Nations in a Revolutionary World."

In his present position since 1946, Dr. Cordier is responsible for co-ordinating United Nations activities and programs, including the organization and direction of the General Assembly and headquarters direction of political missions. He has been principal adviser to all presidents of the General Assembly.

Weissberger Talks On El Greco Feb. 20

Herbert Weissberger, curator of decorative arts, Carnegie Institute Department of Fine Arts, Pittsburgh, will lecture on "The Age and Art of El Greco," on Friday, Feb. 20, at 8 p.m. in the Hetzel Union Building Auditorium.

The illustrated lecture is sponsored by the departments of art and of romance languages.

Prior to his appointment at the Carnegie Institute, Weissberger taught at New York University and gave guest lectures at Columbia University, Queens College, and Carnegie Tech. He has specialized in the art of Spain and the Islamic countries, and is the author of the articles on Spanish artists in Harper's "Encyclopedia of Art."

Conradi To Give Piano Concert Wednesday

Austin Conradi, distinguished pianist and head of the piano department of the Peabody Conservatory, will present a free concert on Wednesday, Feb. 18, at 8:30 p.m. in Schwab Auditorium, sponsored by the department of music.

Conradi has given concerts in Europe and America and has appeared with all the major symphony orchestras in the United States. His program will include selections by Beethoven, Chopin, Brahms, Mantini, and Liszt.

Fritz, Dodson On UCA Seminar Series Wednesday

The second program in the current series, "The Responsible University in an Age of Crisis," will be held on Wednesday, Feb. 18, at 8 p.m. in the Helen Eakin Eisenhower Chapel with Dr. James J. Fritz, associate professor of chemistry, and Elliot E. Dodson, assistant professor of mechanical engineering, as the speakers.

The topic for the program will be "The Christian's Responsibility in the Contemporary University Situation." The series is presented by the Faculty Committee of the University Christian Association.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

Feb. 15—Jewish and Christian Services.

Feb. 22—Dr. Samuel D. Proctor, president, Virginia Union University, Richmond, Va.

Mar. 1—Dr. Luther H. Harshbarger, University chaplain.

Mar. 15—Bishop Fred P. Corson, The Methodist Church, Philadelphia, Pa.

CONCERTS

Feb. 21—Philadelphia Orchestra, Artists Series.

Mar. 1—Artists Series program by Jussi Björling

Mar. 19—Dance Concert by The Dance Drama Co.

ATHLETICS

Feb. 14—Wrestling, versus Maryland, and Basketball, versus Rutgers.

Feb. 24—Basketball, versus Lehigh.

Feb. 27—Basketball, versus Carnegie Tech.

LECTURES

Feb. 17—Graduate School Series. Andrew Cordier, historian-executive of the United Nations."

Feb. 26—Clement Attlee, former prime minister of Great Britain on "World Government or World Chaos."

Mar. 3—Graduate School Lecture by Dr. Perry W. Wilson, bacteriologist, University of Wisconsin.

Seton Hill President To Lecture Thursday

The Reverend William G. Ryan, S.T.B., Ph.D., LL.D., president of Seton Hill College, Greensburg, Pa., will speak on "The Meaning of History According to St. Augustine," on Thursday, Feb. 19, at 8 p.m. in Room 121, Sparks.

The Faculty Committee on Religious Studies, of the College of the Liberal Arts, is sponsor of this Lecture in Religion.

Tickets For Philadelphia Orchestra On Sale Feb. 18

Distribution of tickets to the public for the Artists Series program by the Philadelphia Orchestra on Saturday, Feb. 21, will begin on Wednesday, Feb. 18 and continue through Friday, Feb. 20.

This evening in Schwab Auditorium at 8:30 p.m., the Stuttgart Chamber Orchestra will present a program of music by Handel, Bach, Mozart, and Honegger.

President's Talk Available

Copies of the talk made by President Eric A. Walker before the faculty on Jan. 26 are being made available to interested faculty members, who may obtain a copy from the office of their dean.

Doors Opened 100 Years Ago

On Feb. 16, 1859, the doors of Old Main opened to admit 69 students to the first class ever enrolled at "The Farmer's High School," which today is Penn State and which now enrolls 15,000 on main campus and 4,000 at other campuses and centers throughout the State.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Only Average

Don't Diet Because Of Weight Charts

Dr. Paul T. Baker, assistant professor of anthropology, advises not to take too much stock in weight charts because studies have shown little usable relation between skeletal size and total body weight.



IF the weight charts, and your scales, say that you are overweight, don't rush out to the nearest salon to begin a reducing program. You may not need it.

On the other hand, if your weight does match what the chart indicates for your age and height, maybe you are actually a "fat man."

The incongruity of the two statements would seem to indicate that the weight charts don't mean a great deal, and, in the view of Dr. Paul T. Baker, they don't.

"Weight charts," says Baker, "are averages. They say nothing about the amount of fat for any one individual.

"Studies I have been connected with at various places, including the Biophysics Laboratory here, point out the difficulty in correlating bone length and weight with fat-free body weight. If this relation doesn't hold, then it is impossible to say that the relation between height and weight is a useful indicator of body fatness."

Now assistant professor of anthropology, with duties in both the Bio-

physics Lab and in the department of sociology and anthropology, Baker recently reported to a National Council of Research Conference on Body Composition at Natick, Mass. There, in a paper titled, "Human Bone Mineral Variability and Body Composition Estimates," he suggested that certain assumptions made by researchers in the field of body composition may not be valid.

"One assumption," Baker says, "was that bone mineral formed a constant percentage of fat-free body weight; another that there is a strong relation between muscle and bone weight.

"There is now sufficient data to refute both of these assumptions."

Some of Baker's own work on this subject was done while he was a physical anthropologist with the Climatic Research Laboratory at Lawrence, Mass., and the Quartermaster Research and Development Center at Natick, Mass. He came to the University in July, 1957, as research associate in the Bone Density Research and Evaluation Center, to work with Dr. Harold

Schaer. He now also teaches courses in anthropology.

Researchers have tried many techniques, Baker points out, to obtain data which would show the desired relationships of bone to muscle, bone mineral to total weight, etc., so that accurate estimates of body composition of living persons could be made. Working the other direction, they would like also to be able to determine from the skeleton the body composition of a person while he was living.

"This would be helpful in medico-legal work," Baker says. "And it would also be of great interest to anthropologists and archaeologists."

The archaeologist, for example, would like to be able to reconstruct the body of a man from his skeleton but at this time there would appear to be little hope of indicating his musculature development or his fat tissue from bone weight.

"We have too many examples," Baker says, "of 125-pound persons having the same skeleton weight as those of

(Continued on page three)

Items of Interest

• Lectures

S. E. Thompson, hotel and institution administration, at Purchasing Institute, sponsored by American Hospital Association, last week on "Motivation as a Tool of Purchasing Agents," and "Interdepartmental Relationships."

W. C. Fernelius, chemistry and chemical engineering, at Montana State University this week, on "Research in Small Colleges," and "Coordination Compounds."

J. A. Sauer, physics, visiting lecturer at Lemoyne College recently under auspices, American Association of Physics Teachers and the American Institute of Physics.

Rustum Roy, geochemistry, at Princeton University, Geology Seminar, in January.

H. B. Musser, agronomy, lectures related to turf management, at Detroit, Chicago, and New York, recently.

M. A. Williamson, Engineering and Architecture, on "Decision Making," before Management Council, David Taylor Model Basin, Washington, D. C., recently.

B. W. Niebel, industrial engineering, two one-week seminars on work simplification, manufacturing methods, and incentive compensation, at Monterrey, Mexico, recently.

A. A. Benson, agricultural and biological chemistry, on ten-day lecture tour, sponsored by American Chemical Society, on topic, "The Ionic Lipids."

Winona L. Morgan, child development and family relationships, at Jewish Community Center, New York, recently, on "Parent-Teacher Cooperation in the Nursery School."

R. F. Nielsen, petroleum and natural gas engineering, during month of February at Technical School of the National Hydrocarbon Institute, Milan, Italy.

• Elected or Appointed

William Craig, mathematics, vice-president, Association of Symbolic Logic.

Joseph Marin, engineering mechanics, member of joint ASTM-ASCE Committee for a Symposium on Education in Materials.

Sidney Siegel, psychology, consulting editor, "Sociometry, for 1959 through 1961.

Irving Michelson, aeronautical engineering, to membership of the education committee, American Rocket Society.

H. B. Curry, mathematics, to membership of the United States National Committee of the International Union of the History and Philosophy of Science.

• Articles and Papers

C. S. Faith, mathematics, at meeting of American Mathematical Society, on "Invariant Submodules of Rings."

W. A. Beyer, mathematics, at same meeting, on "Rademacher Series with Geometric Coefficients."

Ari Hoogenboom, history, "The Pendleton Act and the Civil Service," in the January issue, "The American Historical Review."

J. H. Moore, civil engineering, co-author of report titled, "Continuous reinforcement in Highway Pavements," in December issue of Journal of the American Concrete Institute.

Louis Dupree, anthropology, co-author of "The Influence of Stress on MMPI Scale Scores," in January, 1959, Journal of Clinical Psychology.

Dagobert deLevie, German, lead article in "Monatshefte," published by University of Wisconsin, titled "Heilig, Opfern, und Unsterblichkeit."

M. A. Williamson, engineering and architecture, an article titled "Start a Personal Reference Filing System," in January issue, "Industrial Science and Engineering."

H. A. Panofsky, meteorology, co-author with R. A. McCormick, R. A. Taft Engineering Center, of paper, "The Spectrum of Vertical Velocity near the Ground," given at American Meteorological Society this week.

• Books

C. C. Spence, history, "British Investments and the American Mining Frontier, 1860-1901," published recently by American Historical Association.

Hazel M. Hatcher, home economics education, co-author with Mildred E. Andrews, of textbooks, "Adventuring in Home Living," Books 1 and 2, published by D. C. Heath and Co., this month.

Hindu Monk Visits; Available For Lectures

Srimat Puragra Parampanthi, a young Hindu *Sannyasi* (Monk) and scholar will spend next week on the Penn State campus (Feb. 23-March 1). His stay is under the auspices of the Faculty Committee on Religious Studies. He is available to lecture in courses dealing in any way with Hinduism, India, Asian history and culture, or related subjects. Arrangements may be made by calling Mr. Gibson, Ext. 541.

He is presently associated with the Vendant Center of Boston, Massachusetts, and is the author of *Advaita Vedanta and Modern Physics* and *The Cardinal Doctrines of Hinduism*.

Television Show Has Buck

Dr. Roy C. Buck, associate professor of rural sociology, will be the guest on the television broadcast of "Bull Session" Sunday, Feb. 22 at 2 p.m. on WFBG-TV, Altoona, Channel 10. The subject will be farm living and the problems created by its big business aspects. The discussions of current matters of interest.

Dr. Margenau To Give Lectures This Week

Dr. Henry Margenau, professor of physics and natural philosophy, Yale University and for the current semester distinguished visiting professor of physical and engineering sciences, will present a series of lectures, the first of which are scheduled for next week.

On Wednesday, Feb. 25 at 5:15 p.m. and again on Friday, Feb. 27 at the same time in Room 119, Osmond Laboratory he will address the faculty and upperclass and graduate students on "Cultural and Philosophical Perspectives of Modern Physics."

Dr. Margenau will speak on the same subject on Thursday, Feb. 26, for an open meeting at 7:30 p.m. in Room 121, Sparks Building.

Other lectures by Dr. Margenau have been scheduled during the period from Mar. 18 to 24 and April 22 to 25.

A graduate of Midland College, with a master of science degree from the University of Nebraska, and doctor of philosophy from Yale, Dr. Margenau joined the staff of Yale in 1929 and has been Eugene Higgins professor of physics and natural philosophy since 1950.

Dr. Margenau has been a member of the Institute for Advanced Study at Princeton, N.J., the Radiation Laboratory, Cambridge, Mass., consultant for the Atomic Energy Commission, Argonne National Laboratory, and the National Bureau of Standards. He has authored several books in the fields of physics and mathematics and has special interests in spectroscopy, intermolecular and nuclear forces, plasma Physics, and high frequency discharges.

Colleges Respond To Offer To Use Facilities

The offer of President Eric A. Walker to make laboratory facilities and libraries of the University available during the summer months to research personnel from other Pennsylvania colleges has been well-received by many of the colleges.

President M. D. Whitaker, of Lehigh University, and President J. C. Warner, of Carnegie Institute of Technology, in expressing their appreciation, have stated that their facilities will be available during the summer months to interested Penn State faculty members.

Dr. Walker, in making the offer last month, said "we are interested in having visiting staff members take advantage of the opportunities of working in our science laboratories, nuclear reactor, computation services, and our libraries for several reasons."

"For one thing," he wrote, "we would like to have the facilities used more fully during the summer months. Also, this kind of acquaintance between our departments and those of other colleges would probably lead to exchange professorships or perhaps employment in our summer sessions. We hope you will discuss this suggestion with your deans and department heads and let us have your reactions."

Information Center To Aid Faculty

An information center designed to collect and disseminate data concerning the University and its relations to the people of the Commonwealth has been established in the department of public information.

Mrs. Elinor Chamberlain is in charge of the service which is expected to aid University faculty and staff members as well as outside agencies by providing them with easy access to information of many and varied types concerning Penn State.

Enrollment, building construction, financial reports, historic dates, and appropriations are only a few of the subjects on which data are being collected and catalogued for use.

Available now is a summary of University activities in or related to each of the 67 counties of Pennsylvania for the academic year 1957-58. Of use to many persons, but particularly to those who will be speaking in the counties, the mimeographed summaries list chronologically the services rendered by the University to the counties.

Information for the center is obtained not only from University departments but also from State and Federal offices, on a limited scale, to relate Penn State's activities to those of the state and the nation. There is no attempt to duplicate the files of existing offices on campus but a cross-index system eventually will provide a source of reference to all files.

Faculty members are urged to assist in the development of the information, as well as to make use of its services, by providing Mrs. Chamberlain with data on their activities in the Commonwealth, such as research or surveys, speeches or papers of particular application to the local area. Mrs. Chamberlain's office is in 309 Old Main, Ext. 2191.

HUB Dining Room Stays Open For Faculty Use

The plan developed by the Food Service department to make Dining Room "A" of the Hetzel Union Building available at lunchtime for use by faculty members on Wednesday, Thursday, and Friday, has been enough of a success to warrant its continuance, says Robert C. Proffitt, director of food service.

The room was set aside on those three days from 11:30 a.m. to 1:15 p.m. to permit faculty members to discuss common subjects at lunch undisturbed by the general confusion of the main dining room.

Gravatt Succumbs

Thomas E. Gravatt, who taught mathematics for 40 years at Penn State until his retirement in 1944, died Feb. 12 at the age of 83. He was scheduling officer from 1918 to 1920.

Don't —

(Continued from page one)

200-pounders. Measurements of certain bones add information but not of such conclusive nature that we could predict total body weight within reasonable limits."

On the other hand, Baker says, studies have shown that if the total body weight and height are known, the weight of certain parts of the skeleton can be predicted with usable accuracy.

The common expression "big boned" carries a connotation of size and for some people at least, has been an alibi for extra poundage. Certainly people with above-average dry skeleton weights can expect to weigh more, on the average, than those with below-average skeleton weights. For any one individual, however, the total amount of muscle and fat vary greatly from the average.

"Assuming two men 'average' in skeleton size, both with only a minimum of fat, their total body weights could vary from 130 to 180 pounds," Baker says. "If you add on to that the variations which can be obtained through fat accumulation, it is easy to see how difficult it is to correlate total body weight and skeleton weight."

"There are ways to measure fat, with a reasonable degree of accuracy, and these methods are contributing to our knowledge of body composition."

Studies on laboratory animals have shown a high correlation between bone weight and muscle weight, but, Baker says, the factor of environment is as

important as heredity in muscle and fat development and there is insufficient variation in both the environment and heredity of the laboratory animals to make comparisons with humans.

"Genetic factors, including race, are important to skeleton size and body weight," Baker says, "but the variations in size and weight of individuals within genetic groups are greater than the variations between groups."

"Within genetic groups environmental factors such as climate and nutrition have been demonstrated to modify bone and muscle growth as well as fat."

"Environment, therefore, plays an important part in determining individual skeletal and muscular development."

Baker is not at all discouraged that better estimates of body fat cannot be made with present methods, but his paper suggested that new formulas must be developed based on newer information and utilizing available bone weight prediction techniques. Measurement of fat by calipers has proved effective. X-ray techniques have been used in the Biophysics Laboratory with limited success also in indicating skeletal weight.

Body density measurements give some indications of fat and the measurements are relatively easy to make, but they depend on the basic relationship between muscle, bone, and minerals in the body. Until such relationships are established with greater certainty, no clear picture of body composition is possible.

UCA Dinner Meeting Scheduled Friday

The Winter Meeting of the Board of Directors of the University Christian Association will convene on Friday, Feb. 27, at 4:10 p.m. in the Assembly Hall of the HUB. Following the business meeting there will be a dinner meeting in Dining Room "A" of the HUB. The program for the dinner meeting will include (1) a report by the delegation to the National Student Assembly of the YMCA-YWCA at Christmas time, and (2) an address on the role of the Christian Association in the University.

The speaker of the evening will be the Reverend Harold Ingalls, former General Secretary of the University of Illinois YMCA. Previous to that he was on the National Staff of the Student YMCA and is presently Executive Director of Kirkridge. Kirkridge is a retreat and study center; a movement of persons under a discipline who are concerned about the renewal of the Church. It is located near Stroudsburg, Pennsylvania.

The dinner meeting is open to all faculty and staff members. The cost of the dinner will be \$1.75 per person. Reservations may be made by calling the UCA office at Ext. 541, before Monday, Feb. 23.

Seminar On Teaching To Bring Van Doren

Mark Van Doren, author and professor of English at Columbia University, will be the first speaker for the "Seminar on Excellence of Teaching in a Large University," a three-program series being conducted in March as a special education project of the University.

The Seminar is designed to stimulate wider discussion of teaching on the campus.

Dr. Edward Hodnett, formerly chairman of the department of English at Ohio University and now associated with the Dow-Corning Corporation, will be the second speaker. The third program in the series will be a panel discussion by six members of the faculty.

Van Doren will appear on Thursday, March 5; Dr. Hodnett on Thursday, March 12; and the panel discussion will be held on Wednesday, March 18. All programs begin at 8 p.m.; the first two will be held in room 10, Sparks Building, and the third in room 121, Sparks.

The panel will consist of Drs. Paul M. Althouse, Ralph E. Armington, Henry A. Finch, Katherine H. Fisher, Amos J. Shaler, and Lawrence L. Werboff. This group has served for the past 18 months on the Subcommittee for Improvement of Instruction of the Senate Committee on Educational Policy.

Calendar

Friday, Feb. 20

Lecture by Herbert Weissberger, sponsored by departments of art and romance languages, 8 p.m., HUB Auditorium, on "The Age and Art of El Greco."

Players Production of "Music by Night," 8 p.m., Center Stage.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. E. Willard Miller, head of geography department, on "World Patterns and Trends in Energy Consumption."

Fluid Mechanics Seminar, 4:15 p.m., Room 105, Mechanical Engineering. Isaac Greber, department of aeronautical engineering, Massachusetts Institute of Technology, on "The Effect of Suction of Laminar Separation in Supersonic Stream."

Saturday, Feb. 21

University Artists' Series program by Philadelphia Orchestra, under direction of Eugene Ormandy, 8:00 p.m., Recreation Building.

Sunday, Feb. 22

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Miss Genevieve Dilts.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Samuel D. Proctor, president, Virginia Union University.

Showing of three films on human relations, The High Wall, Crisis in Levittown, and Picture in Your Mind, at Hillel Foundation, 7:30 p.m.

Monday, Feb. 23

Linear Programming Seminar, 11 a.m. to 1 p.m., Room 101, Hunt Building. Dr. Donald T. Laird, on "The Simplex Method."

Meeting of faculty of College of Physical Education and Athletics, 7 p.m., Room 241, Recreation Building.

Faculty Luncheon Club, 12 noon, Dining Room "A", Hétzel Union Building. E. B. McCoy, dean of the College of Physical Education and Athletics, on "Penn State's Athletic Future."

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Methodist order of worship.

Mineral Economics Seminar, 4:10 p.m., Room 121, Mineral Industries. Dr. H. L. Lovell on "Beneficiation of Taconites."

Engineering Mechanics Seminar, 4:15 p.m., Room 203, Engineering "A". Dr. E. R. Fitzgerald, associate professor of physics, on "Atomic Structures and Mechanical Properties of Solids."

American Chemical Society meeting, 8 p.m., Room 111, Boucke. Dr. William E. McEwen, professor of chemistry, University of Kansas, on "Reduction of Organic Compounds by Lower Valent Species of Active Metals Anodically Generated."

Sigma Gamma Epsilon meeting, 8 p.m., Helen Eakin Eisenhower Chapel lounge. Dr. Allan Rodgers, associate professor of geography, on "Soviet Central Asia Today."

Films To Be Previewed

Films listed below have been requested from producers. Please call Extension 2051 and give code number of those you would like to see; you will be notified when they arrive so that you can arrange a review showing in Room 9, Library.

- F-1 Lines and Angles (basic geometry)
- F-2 Three Case Histories on TB (problems of home patients)
- F-3 Johnny's New World (eye care of school-age children)
- F-4 Mitosis Fibroblasts
- F-5 Cellular Movements
- F-6 Yesterday's Actors (soliloquy in various acting styles)
- F-7 Daughter of Changing Japan
- F-8 Our Dog Show (citizenship education for young children)
- F-9 Driving Tips (traffic safety)
- F-10 This Is Synchronized Swimming
- F-11 Edgar Allan Poe: Background for His Works
- F-12 Rectilinear Co-ordinates
- F-13 Planning Recreational Facilities
- F-14 Fruits for the North (breeding for northern climates — U. of Minnesota)
- F-15 The Fish and the Fisherman (Russian folk tale in animation)
- F-16 The Middle East
- F-17 The Bicycle Clown (traffic safety)
- F-18 The World of Molecules (elementary science)
- F-19 Treasures of the Earth (elementary science)

Tuesday, Feb. 24

Mathematics Colloquium, 7:30 p.m., Room 214, Boucke. Dr. Abraham A. Frankel, professor of mathematics, Hebrew University, Jerusalem, on "Axiom of Choice."

Basketball, versus Lehigh, 8 p.m., Rec Hall. Physics Colloquium, 4:15 p.m., Room 117, Osmond Laboratory. Dr. Alan J. Bearden, department of physics, Johns Hopkins University, on "X-Ray Photoelectric Cross-Sections."

Wednesday, Feb. 25

Lecture by Dr. Henry Margenau, distinguished visiting professor in the physical and engineering sciences, 5:15 p.m., Room 119, Osmond Lab, on "Cultural and Philosophical Perspectives of Modern Physics." For graduate students and faculty members.

Great Decisions Series, "U.S. Foreign Economic Policy," with Dr. Jan S. Prybyla, Marvin E. Rozen, Arthur H. Reede, Will E. Mason, with Monroe Newman as moderator, 7:30 p.m., memorial lounge, Helen Eakin Eisenhower Chapel, sponsored by the International Affairs Commission, UCA International Relations Club.

Thursday, Feb. 26

Vesper Service, 4:30 p.m., Helen Eakin Eisenhower Chapel. Methodist order of Worship.

Mathematics Colloquium, 3:15 p.m., Israel N. Herstein, associate professor of mathematics, Cornell University, on "Matrices of Trace O."

Talk by Clement Attlee, former prime minister of Great Britain, 8 p.m., Schwab Auditorium on "World Government or World Chaos," sponsored by University Lecture Series.

Lecture by Dr. Henry Margenau, distinguished visiting professor in the physical and engineering sciences, 7:30 p.m., Room 121, Sparks Building, on "Cultural and Philosophical Perspectives of Modern Physics." Open to the public.

Friday, Feb. 27

Mathematics Colloquium, 3:15 p.m., Room 9, Sparks Building. Dr. Charles W. Curtis, associate professor of mathematics, University of Wisconsin, on "Indecomposable Nodules."

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. J. V. Smith, associate professor of mineralogy, on "The Developing X-Ray Powder Data File."

Lecture by Dr. Henry Margenau, distinguished visiting professor in the physical and engineering sciences, 5:15 p.m., Room 119, Osmond Lab, on "Cultural and Philosophical Perspectives of Modern Physics." For graduate students and faculty members.

Cosmopolitan Club annual banquet, 6 p.m. Japanese food and entertainment. For tickets, call AD 8-0832.

Winter meeting, Board of Directors, University Christian Association, 4:10 p.m., assembly room, Hétzel Union Building, followed by dinner meeting, dining room "A", Hétzel Union Building. Dinner meeting open to faculty and staff members.

Tickets For Attlee Talk To Be Distributed Tuesday

Tickets for the talk by Clement Attlee, former prime minister of Great Britain, will be distributed on Tuesday, Feb. 24, beginning at 9:30 a.m. at the Hétzel Union Building.

One thousand tickets will be given free to students; 100 tickets will be sold at \$1.25 each to non-students.

The lecture is scheduled for Thursday, Feb. 26 at 8 p.m. in Schwab Auditorium on the subject, "World Government or World Chaos."

Women's Editor To Address Dinner Sunday

Mrs. Lee Walsh, women's editor of the Washington Star, will speak at the Matrix Dinner on Sunday, Feb. 22, and address journalism students on Monday afternoon.

The dinner is sponsored by Alpha Tau chapter of Theta Sigma Phi and marks the 50th anniversary of the professional fraternity for women in journalism and the 25th anniversary of the establishment of the local chapter.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

Mar. 1—Dr. Luther H. Harshbarger, University chaplain.

Mar. 15—Bishop Fred P. Corson, The Methodist Church, Philadelphia, Pa.

CONCERTS

Mar. 1—Artists Series program by Jussi Bjoerling

Mar. 19—Dance Concert by The Dance Drama Co.

LECTURES

Mar. 3—Graduate School Lecture by Dr. Perry W. Wilson, bacteriologist, University of Wisconsin.

Ormandy Conducts Orchestra In Rec Hall Tomorrow Night

Eugene Ormandy will conduct the Philadelphia Orchestra in its program tomorrow evening in Recreation Building at 8:00 p.m.

The program by the Orchestra will include selections from Bach, Beethoven, Debussy, and Stravinsky.

The next program in the Artists Series will be on Sunday, Mar. 1 by Jussi Bjoerling, noted Swedish tenor. Tickets for this concert will be distributed to the general public starting on Thursday, Feb. 26, at 9 a.m. and continuing until the day of the concert.

Toulmin To Lecture In Philosophy Series

Dr. Stephen Toulmin, who holds the chair in philosophy at the University of Leeds, England, will present the seventh in the current Distinguished Lecture Series in Philosophy on Friday, Mar. 13 at 8 p.m. in Room 121, Sparks Building.

He will speak on "Matter, Life, and Spirits."

Author of numerous articles on many branches of philosophy, Dr. Toulmin is author of the books, *Reason in Ethics*, *Philosophy of Science*, and *The Uses of Argument*. He will talk to the staff of the philosophy department and others interested on "How Concepts Develop," on Saturday, Mar. 14, at 10 a.m. in Room 217, Willard Hall.

Dr. Eva Wilson Appointed To Home Economics Staff

Dr. Eva D. Wilson, who served as head of the department of foods and nutrition in 1951-52 and who has since served part-time in various capacities in the College of Home Economics, has been named professor of foods and nutrition.

Widely known for research studies on metabolism and food composition, Dr. Wilson came to Penn State with her husband, the late Dr. H. K. Wilson after having served at the University of Minnesota and the Merrill-Palmer School in Detroit.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Alumni College In April Expected To Enroll 75

Alumni of the University, including those living in the local area, are invited to participate in a unique Alumni College program April 16 to 18.

Sponsored by the Alumni Association and the Center for Continuing Liberal Education, the program will enroll 75 graduates who will explore the subject, "America as a Civilization: Today and Tomorrow," using as a text Max Lerner's book, "America as a Civilization."

Participating lecturers will include Dr. Joseph E. Johnson, president of the Carnegie Endowment for International Peace; John Osman, vice-president for the Fund for Adult Education; and faculty members Dr. Amos J. Shaler, Dr. Chadwick C. Hansen, Dr. R. Wallace Brewster, and a member of the applied art faculty.

Further information concerning the College may be obtained from the Alumni Association, Ext. 456.

Siegel, Nolan On Telecasts

Dr. Albert Siegel, associate professor of child development, and Dr. Francena L. Nolan, associate professor of rural sociology, will be the guests on the current "Penn State: Its Men and Ideas" telecast next week over WFBG-TV, Altoona, at 9:50 a.m., Monday, Wednesday, and Friday.

The general theme of this semester's telecasts is "The Changing Family," and the subject for next week's programs is "The Role of the Mother in the Changing Family."

Dr. Winona L. Morgan, professor of child development and family relationships is presiding over the series this semester.

Senate Meets Thursday

The University Senate will meet on Thursday, Mar. 5, at 4:15 p.m. in Room 121, Sparks Building.

Center Stage Production To Feature Kaleidoscope

The next play at Center Stage will be the Penn State Players production of "Theatre Omnibus," a kaleidoscope of American, English, and Japanese theatre.

Kelly Yeaton, associate professor of theatre arts, is the director of the production, which will begin on Friday, Mar. 6 and continue each weekend until Mar. 21.

Dr. Walter W. Walters, head of the theatre arts department, will act as narrator of the production, which will present scenes from many popular plays, such as "A Streetcar Named Desire," "Life With Father," and "The Time of Your Life."

The production will feature the Arts Company, a group of graduate students, who present scenes for the arts classes in General Education. Miss Hisako Matsubara, graduate student from Japan, will present three Japanese dances.

Tickets for "Theatre Omnibus" will go on sale at the HUB on March 2.

Perry Wilson To Give Two Talks Next Week

Dr. Perry W. Wilson, bacteriologist at the University of Wisconsin, will present the next Graduate School Lecture on Tuesday, Mar. 3, at 8 p.m. in Room 121, Sparks Building.

He will speak on "Favorites of Chance," in a talk co-sponsored by the Biological Sciences Seminar.

In addition to this talk, Dr. Wilson will also speak before the Biological Research Society on Wednesday, Mar. 4, at 4:15 p.m. in Room 112, Buckhout Laboratory, on the subject "Biological Nitrogen Fixation."

Bjoerling Concert Sunday

The 12th concert in the current Artists' Series will be presented on Sunday, Mar. 1 at 8 p.m. in Recreation Building by Jussi Bjoerling, Swedish tenor of the Chicago Lyric Opera.

Van Doren Opens Seminar On Teaching Thursday

Mark Van Doren, who will retire in May after 39 years of teaching at Columbia University, will speak on "The Teacher and the Student," in the first of three seminars on teaching Thursday, Mar. 5 at 8 p.m. in Room 10, Sparks Building.

A special education project of the University, the series will also include Dr. Edward Hodnett, of the Dow-Corning Corporation, on Mar. 12, and a panel discussion on Mar. 18.

Poet, story writer, and critic, Mark Van Doren is a Pulitzer Prize winner (in 1940, for poetry). He is the author of such recent books as "Home With Hazel and Other Stories," "Selected Poems," and "The Last Days of Lincoln," a play which will be produced in New York next fall. He is president of the American Academy of Arts and Letters.

UCA Faculty Committee Sets Third Program

The third program in the current series "The Vocation of the Professor in Our Time," sponsored by the Faculty Committee of the University Christian Association, will be given on Wednesday, Mar. 4, at 8 p.m., in the main lounge of the Helen Eakin Eisenhower Chapel.

Dr. A. H. Reede, professor of economics, Dr. E. W. Mueller, research professor of physics, Dr. Winona L. Morgan, head of the department of child development and family relations, and Ralph E. Patterson, professor of agricultural engineering extension, will combine to present the program on "A Christian Understanding of Four University Occupations."

Edwin P. Nye, associate professor of mechanical engineering, is chairman of the meetings.

The current series of programs is the third in the overall program entitled "The Responsible University in an Age of Crisis."

Waste In Colleges?

Reprinted from November, 1958, issue of "Changing Times", the Kiplinger magazine, with permission of the publishers.

HERE'S a college where over 50% of the students quit or are flunked out before they graduate. And here's one that offers 110 different courses in a single field, many of them attended by no more than two or three students. And here's one where expensive laboratories are used only one third of the time they might be used.

What are the colleges up to?

Three and a half million youth crowd our campuses this year. Within a dozen years enrolments will double. With the influx will come criticism, often carping, sometimes constructive. Sweeping charges of waste, like those being hurled at high schools (which are the current center of parental interest) help no one. But college administrators, whether they run private, state or church-affiliated schools, do hold a public trust and must expect to have to answer some tough questions.

Here are six that might be posed by a practical-minded businessman, one who wonders whether colleges are really doing everything possible to a) meet the rising demand for all kinds of educated people, b) make room for kids like his own who want and deserve a chance at college, c) keep costs within reason.

* * *

1. The U.S. Office of Education will soon publish results of a survey showing that if colleges made full use of the facilities they now have, they'd be able to accommodate an additional 60,000 live-in students or 250,000 nonresident students. Another national study shows that the average classroom and laboratory stand idle more than half the time they might be used and, when used, are much too big.

Question: Why don't colleges make more efficient use of their space and facilities?

They are trying to. The figures given above come from studies that colleges are making of themselves. Marietta College in Ohio, for example, found that it was using only about 25% of its classroom-hour capacity. As a result, even though enrolments are expected to double in the next decade and living quarters will have to be increased, the college does not see a need for additional classroom space.

About half the colleges that responded to the Office of Education survey said they were conducting or planning efficiency self-studies. But nearly 400 admitted that although studies were needed, they weren't planned. Those schools may need some goading from trustees.

* * *

2. Scores of colleges enrol fewer than three or four hundred students. Surely, those schools can't afford much modern equipment. Even larger colleges can't buy all the complex tools

used in education these days. As the president of Antioch points out, "There are not so many as a double handful of colleges in this country capable . . . of going it alone during the next 25 years." Yet, if alumni are to judge by fund-raising campaigns, every alma mater in the nation seems determined to add an engineering school or some other type of department, build new labs, double its faculty or otherwise try to solve the educational crisis on its own.

Question: Why don't colleges get together and share facilities?

The answer is that more and more are doing so in many imaginative ways.

Interstate agreements in the South and West give students of one state resident privileges in another. Thus the specialized schools of each become available to all.

About 150 liberal arts colleges have tied up with engineering institutes. Youngsters take three years at the liberal arts schools, two at the technological college and receive two degrees.

Over the past several years the concept of the "university center" has spread widely. The Richmond Area University Center, for example, is a cooperative organization of sixteen separate institutions. The Associated Colleges of Claremont, Cal., are five small independent colleges that share a library, a science building, medical facilities, an auditorium and joint business offices. In New England, Amherst, Smith, Mount Holyoke and the University of Massachusetts make some joint faculty appointments and share a number of resources. At least 17 cooperative ventures of this kind are going on.

3. Colleges employ roughly one full-time faculty member for every 14 full-time students. To maintain this ratio in the face of enrolments over the next 15 years, colleges will need at least two and a half times the number of teachers they now have. But getting that many will be well nigh impossible.

Question: Why don't colleges make more efficient use of their teachers through larger classes and by wider use of television?

The main trouble here is the old belief that small classes automatically mean better instruction. Many colleges have built their reputations on their student-teacher ratios. One school boasts that 88% of all its classes have fewer than 30 students and 40% have fewer than 10. But there's no substantial evidence that small classes produce better students. In fact, studies show that size has little effect. Far, far more important is the quality of the teacher.

And the qualities of a good teacher do get across on television. Controlled experiments show that in large-enrolment courses teachers get the same results through TV as in person; that stu-

dents like the TV courses; that TV does produce savings; and that professors, skeptical at first, are coming to accept it.

More than 200 colleges are using television in instruction. Many others are planning to. In fact, the Southern Regional Education Board is drawing up plans to link 300 four-year colleges in 16 states by television. It won't be long before just about every college has TV.

* * *

4. The president of Rutgers, speaking about college curricula, said recently: "It has almost reached the point where no one expects to know anything, from how to manage the school waste paper baskets to how to deal with one's relatives, without taking a special course in it, and getting a certificate."

Question: Why don't colleges prune away superfluous courses?

This is an old and tough problem, and at the root of it are many kinds of pressure: a) Faculty members want to give courses in their specialties and often won't stay if they can't; b) Business groups like to see courses established in their fields; c) Fraternal, patriotic, religious and alumni groups bring pressure; d) Administrators often want to compete with other schools by imitating. As the vice-president of Luther College in Iowa puts it, "This is an age of imitation. Normal schools want to be teachers colleges; teachers colleges, state colleges; state colleges, universities; and all of them, together with professional schools, want the prestige of liberal arts colleges. Some colleges have improved through changes. Most, however, have made changes because of fads, pressures, gift conditions or mere imitation, and have gradually weakened their position."

The solution? Most colleges know what it is; some are trying to apply it—that is, to decide clearly what their purpose is and stick to it.

But once courses are added, they're tough to drop. In one case, a dean told a department head who opposed a cut-back that faculty members would get salary increases in the amount saved. "Oh," said the chairman, "that's different."

Sometimes administrators trying to deal fairly with a curriculum get unreasonable outside interference. Critics pick isolated instances of what appear to them to be silly courses and attack the entire curriculum. President Lewis Jones of Rutgers told *Changing Times*: "The contemporary university . . . is dealing . . . with human values and human subtlety. A good college or university must constantly be sensitive to these important values. It may look to a layman simple to change a college curriculum . . . but this is a professional job that only those who have had long experience and extended education can do effectively."

* * *

5. You can lead a student to college, but you can't make him think. Probably one of the reasons we need so many teachers is that we spoon-feed

New Ph.D. Regulations In History

our youth. Many a student goes through college collecting credit hours instead of collecting knowledge.

Question: Why don't colleges stop coddling students and make them work more on their own?

College people agree that learning is an individual process and are pushing independent study programs. Indeed, about a fourth of the four-year colleges already have institution-wide programs; others require independent study in many courses. Students do library, lab or field work on their own but under the guidance of an instructor and then write papers and take exams.

But these programs don't seem to save money. More materials are needed, and the students use big chunks of instructor time in private discussion. Meantime, basic courses must still be given.

However, students do benefit greatly, and the programs are spreading. Two agencies to further them have been set up. One is the Inter-University Committee on the Superior Student with offices at the University of Colorado. The other is a clearinghouse on education of the talented, set up by the National Education Association.

* * *

6. Only about six out of ten who enter college ever graduate. In teachers colleges more than 70% of the men quit before graduation. One of the chief reasons is lack of interest in studies.

Question: Why don't colleges raise admission standards and thus improve quality and reduce dropouts?

The solution is threefold: 1. Students, with the help of parents, should begin planning for college earlier and should choose more carefully; 2. More and better counseling is needed in the high schools; 3. Colleges should select students more carefully. Some schools have reduced dropouts to near zero.

But this doesn't mean that all schools should automatically cut out the vast bulk of applicants. The argument often heard that we are trying to educate too many kids doesn't hold water. The national need is for educated manpower of every kind to fill a multitude of jobs. And we badly need an alert and educated citizenry to cope with the complexities of the space age. American colleges can supply the need because of their vast diversity. The job of high schools, colleges — and parents — is to get the youngsters who can benefit from higher education into the programs where they can benefit the most.

Saxophonist To Appear With Concert Blue Band

Sigurd Rascher, internationally known saxophonist, will be guest soloist for the program of the Concert Blue Band at 3 p.m., Sunday, Mar. 1, in Schwab Auditorium.

Rascher will conduct a clinic in Room 117, Carnegie Building, on Saturday, Feb. 28 at 1 p.m. that will be of interest to young saxophone players of the area.

The department of history has adopted a new program for students seeking a doctor of philosophy degree, Dr. Joseph G. Rayback, acting head of the department, has announced.

The program, which will preserve the profession's traditional concept of the Ph.D. by providing a strong grounding in both European and American history, is designed at the same time to bring the degree into line with two new educational developments: (1) the trend toward broader, more liberal education which has appeared on the undergraduate level under the name "general education," and (2) the trend toward specialization which can be seen most clearly in the scientific disciplines.

Under the traditional requirements for a history Ph.D. a candidate was required to pass comprehensive examinations in five areas of study selected from the following: Ancient history, Medieval history, European history from 1500 to 1815, European history from 1815 to the present, Colonial American history, the Middle Period of American history between 1776 and 1876, and the Modern Period of American history since 1876.

He was also expected to pass an examination in some minor field related to history and a "final" examination on the historical area in which his thesis was written. These requirements gave the candidate an excellent general knowledge of history and an historical specialty which primarily equipped him for teaching history on a college level.

While the new regulation adopted by the department still permits a candidate to follow this basic program, it also permits a departure. Under the new rule the candidate needs only to pass examinations in three of the areas mentioned above.

In addition, he must pass an examination in one of the following areas: British history, Far Eastern history, Latin-American history, Russian history, European or American political history, European or American Economic history, European or American Diplomatic history, European or American Social history, or some other field approved by the department. This additional area will provide the student with an historical specialty.

Finally — and this is considered the most important innovation — the student will be expected to pass an examination in a combination of courses (up to a maximum of twenty-four hours) from departments other than history; these courses are to be directly related to the student's thesis field. For example, a student doing his thesis in Russian history might take appropriate supporting courses in Russian literature, Political Science, Economics, and Geography. A student writing his thesis in Ancient history might take appropriate supporting courses in Archaeology, Art and Architectural history, Greek,

Hebrew, Latin, Philosophy, and Religion.

The department believes that this new regulation, which will bring the student into close contact with knowledge in a number of disciplines, will offer certain important advantages to the student. It will give him knowledge of the methodology of other disciplines — knowledge which can and should be incorporated into the methodology of history — thus increasing the student's analytical ability. It will both deepen and broaden the student's knowledge of his area of study, providing him simultaneously with the benefits of special education and liberal education.

In addition, it will enlarge the student's job opportunities. As a liberally trained specialist his services will become more valuable to such agencies as the State, Defense, and Commerce departments; to the National Security Board; to archival institutions; and to business houses, particularly those with foreign resources or markets.

The department also expects that its new regulation will affect other University disciplines. It will tend to encourage the development of Area Study programs such as those in the Far Eastern, Latin-American, and Russian fields, both on an undergraduate and on a graduate level. At the same time it will encourage study in the disciplines involved in such a programs.

It will also tend to encourage the development of new area studies: the Ancient Orient, the Modern Middle East, the civilizations of Africa and South Asia.

Finally, it should tend to bring a large number of departments that use history as a part of their graduate program into closer coordination among themselves.

M.I.T. Chem Engineer Priestley Lecturer

Dr. Thomas K. Sherwood, professor of chemical engineering at Massachusetts Institute of Technology, will present the 1959 Priestley Lecture Series during the week of April 13.

The general theme of the lectures will be "Mass Transfer Between Phases."

The Series was inaugurated in 1926 by Dr. Wheeler P. Davey, now professor emeritus of physics and is sponsored by Mu chapter of Phi Lambda Upsilon, chemistry recognition society.

Language Exams Scheduled

The regular written Foreign Language Examinations will be held on Monday, Mar. 2, at 7 p.m. Those in German will be given in Rooms 1 and 2, Sparks Building, and those in French and Spanish in Room 110, Electrical Engineering. The conflict examination in German, French, and Spanish will be held on Tuesday, Mar. 3, at 7 p.m. in Room 6, Sparks.

Calendar

Friday, Feb. 27

Mathematics Colloquium, 3:15 p.m., Room 9, Sparks Building. Dr. Charles W. Curtis, associate professor of mathematics, University of Wisconsin, on "Indecomposable Modules."

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. J. V. Smith, associate professor of mineralogy, on "The Developing X-Ray Powder Data File."

Lecture by Dr. Henry Margenau, distinguished visiting professor in the physical and engineering sciences, 5:15 p.m., Room 119, Osmond Lab, on "Cultural and Philosophical Perspectives of Modern Physics." For graduate students and faculty members.

Cosmopolitan Club annual banquet, 6 p.m. Japanese food and entertainment. For tickets, call AD 8-0832.

Winter meeting, Board of Directors, University Christian Association, 4:10 p.m., assembly room, Hetzel Union Building, followed by dinner meeting, dining room "A", Hetzel Union Building. Dinner meeting open to faculty and staff members.

Sunday, Mar. 1

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Rev. Hal Leiper.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. The Rev. Luther H. Harshbarger, University chaplain.

Artists Series concert by Jussi Bjoerling, Swedish tenor, 8 p.m., Recreation Building.

Concert by the Penn State Concert Blue Band, 3 p.m., Schwab Auditorium, James W. Dunlop conducting and Sigurd Rascher, saxophonist, as guest artist.

Monday, Mar. 2

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building, Hubert W. Frings, professor of zoology, on "Civilization—The Birds' Dilemma."

Vesper service of worship, 4:15 p.m., Helen Eakin Eisenhower Chapel. Lutheran Service of Worship.

Graduate Mining Seminar, 3:30 p.m., Room 24, Mineral Industries. Frank D. Hoyt, research assistant, on "Sequential-Sampling Quality Control in Exploration."

Linear Programming Seminar, 11 a.m., Room 101, Hunt Building.

Engineering Mechanics Seminar, 4:15 p.m., Room 203, Engineering A.

Mineral Economics Seminar, 4:10 p.m., Room 121, Mineral Industries. Dr. S. C. Sun on "Flotation of Taconites."

American Statistical Association, State College Chapter, 5 p.m., Room 201, Willard Building. Dr. S. F. Mack, in a book review of John Riordan's book, "An Introduction to Combinatorial Analysis."

Tuesday, Mar. 3

Physics Colloquium, 4:15 p.m., Room 117, Osmond Laboratory. Dr. L. Genzel, Physical Institute of Frankfurt University, on "Far Infrared and Millimetric Wave Spectrometry at Frankfurt."

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. Randall S. Stout, professor of economics, on "Fiscal Issues in States."

Graduate School Lecture by Dr. Perry W. Wilson, bacteriologist, University of Wisconsin, on "Favorites of Chance," co-sponsored by the Biological Sciences Seminar.

Seminar of Faculty Committee, University Christian Association, 8 p.m., Helen Eakin Eisenhower Chapel, with A. H. Reede, E. W. Mueller, Winona L. Morgan, and R. E. Patterson, on "A Christian Understanding of Four University Occupations."

Wednesday, Mar. 4

Lecture by Dr. Perry W. Wilson, University of Wisconsin, 4:15 p.m., Room 112, Buckhout, on "Biological Nitrogen Fixation," sponsored by the Biological Research Society.

Lecture by Dr. Thomas D. Clark, distinguished visiting professor of history, 8 p.m., Room 121, Sparks Building, on "The South in Transition."

Thursday, Mar. 5

Sigma Xi lecture by Dr. Gertrude M. Cox, director, Institute of Statistics, North Carolina University, 8 p.m., Room 214, Boucke, on "Experimental Designs."

Meeting of University Senate, 4:15 p.m., Room 121, Sparks.

Seminar on Excellence in Teaching, 8 p.m., Room 10, Sparks. Mark Van Doren, Columbia University, on "The Teacher and the Student."

Friday, Mar. 6

Opening performance of Center Stage production of "Theatre Omnibus," 8 p.m., Center Stage.

Dr. Cox To Give Sigma Xi Lecture Thursday, Mar. 5

Dr. Gertrude M. Cox, director of the Institute of Statistics, The Consolidated University of North Carolina, will speak on "Experimental Designs," on Thursday, Mar. 5 at 8 p.m. in Room 214, Boucke Building, sponsored by the Society of Sigma Xi.

A fellow of the American Statistical Society, which she served as president in 1956, and an honorary fellow of The Royal Statistical Society, Dr. Cox is an editor of "The American Statistician" and co-author of the text, "Experimental Designs."

State Department Picks Film For Overseas Use

A documentary film, "A Fresh Wind Blows," produced by the Motion Picture and Recording Studio of General Extension has been selected by the U. S. State Department for distribution by its overseas agencies.

The film tells the story of the Summer Institutes for Steelworkers which began at Penn State in 1946 and are now conducted on 30 campuses in the United States and Canada. It was released in February, 1958, prior to the discontinuance of the Studio's activities.

Frank S. Neusbaum, head of the Studio at the time the film was produced and now professor of theatre arts, was in charge of production. Gilbert Aberg, radio-television producer in the department of public information, wrote and directed the production. Delmar P. Duvall and Gerald Hutchison, both now with the Division of Academic Research and Services, were members of the film crew.

Anthony S. Luchek, who headed the Labor Education Service and is professor of industrial relations, was consultant for the film, as were officials of the United Steelworkers of America, the sponsors.

The film will be translated into a number of foreign languages and shown abroad as an example of the achievement of modern unionism.

Medical College Tests

Candidates for admission to medical school in the fall of 1960 are advised to take the Medical College Admission Test in May of this year, Dr. Leon R. Kneebone, supervisor of the Test on campus says.

Although the test will be given on Oct. 31, at some 300 centers in all parts of the country, the test scheduled for May 2 should be scheduled by fall candidates since the various medical schools would have these test scores early in the fall, when they begin the selection of their next entering class.

Copies of informational bulletins are available from Educational Testing Service, 20 Nassau St., Princeton, N.J., or from Dr. Kneebone, Room 117, Buckhout. Applications for the May test must be received by the ETS by April 18.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

Mar. 1—Dr. Luther H. Harshbarger, University chaplain.

Mar. 8—Bishop Fred P. Corson, The Methodist Church, Philadelphia, Pa.

Mar. 15—Dr. Christian Baeta, University College, Achimota, Ghana.

Mar. 22—Easter Choral Service.

CONCERTS

Mar. 19—Dance Concert by The Dance Drama Co.

DRAMATICS

Mar. 12-14—Thespian Show, with matinee on Saturday.

Three European Seminars Again Scheduled By UCA

Three European Seminars have been arranged by the University Christian Association this summer, Samuel N. Gibson, executive director of the UCA, has announced.

From June 17 to August 5 a seminar titled "Europe '59" will be conducted by Gibson and Mrs. Laurama Pixton, who was a co-leader with her husband on one of the 1957 seminar excursions.

Edwin W. Zoller, professor of art, and The Rev. John Whitney, chaplain rector of St. Andrew's Parish in State College, will lead the seminar titled "Perspective on the Arts," from July 8 to August 26.

The third seminar will be led by Mrs. Helen Buchanan, instructor in family relationships, and The Rev. Hal Leiper, associate director of UCA. It is titled "Faith and Life" and will run from July 8 to August 29.

All seminars are limited to 20 members. Current students and recent graduates of colleges and universities are eligible.

Pugh Awards Increased

An increase in the number of Evan Pugh Award winners has been authorized by President Eric A. Walker upon recommendation of the Senate Committee on Scholarships and Awards.

The number of senior and junior students to receive this award will be one-half of one per cent of the enrollment in each class. Heretofore, six senior and six junior students were granted the medal, which is given for outstanding academic achievement.

Dr. Clark To Speak On South's Transition

Dr. Thomas D. Clark, distinguished visiting professor of history, will speak on "The South in Transition" on Wednesday, Mar. 11, at 8 p.m. in Room 121, Sparks Building.

On leave from his position as head of the department of history at the University of Kentucky, Dr. Clark is the author of many publications dealing with the history of the South. A graduate of the University of Mississippi, he completed his graduate work at the University of Kentucky and Duke University. He was appointed to the University of Kentucky faculty in 1931.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Governor Recommends 34 Million More Sought From Legislature

Gov. David L. Lawrence set the University's biennial appropriation at \$34,227,335 this week, but President Eric A. Walker indicated that the University will look to the Legislature for support to obtain an appropriation of \$43,906,400 from the Commonwealth for the next biennium.

The amount suggested by the Governor is an increase of \$4.5 million over the appropriation of the current biennium but \$9.7 million short of the amount President Walker believes necessary.

"Despite the Governor's sympathetic interest in the University," President Walker commented, "the arithmetic of State finances will, if unchanged, tie our hands at a time when the demands on us are at an all-time high and still rising."

Noting that the Governor had recommended almost the same percentage increase for the three large state-aided institutions as he did for Penn State, President Walker pointed out that the University is different from Pennsylvania's many private colleges and universities in that it has no private endowment to fall back on.

"Its appeals to private benefactors for operating funds are unproductive," the President explained, "because it is looked upon legally as an agency and ward of the State."

President Walker said only two courses of action were open to the University — either "we cut the coat to fit the cloth or we seek additional funds."

Speaking to the first point, he said: "Since every dollar of the recommended increase in the Governor's budget will be needed to meet rising prices of materials and supplies, and to start bringing salaries and wages up to competitive levels, nothing new could be done during the coming two years. This would mean abandonment of plans to

admit 5,600 additional students, and freezing enrollments at present levels. It would mean no new research programs for Pennsylvania industry and agriculture, and no expansion of such projects now under way. It would mean curtailment of the state-wide system of Commonwealth Campuses for undergraduates, and of the continuing extension programs for adults."

On the second, he said simply: "Governor Lawrence has stated that he would approve a legislative increase in Penn State's allocation if the Commonwealth's budget is balanced. On this basis I shall explore with the Legislature the possibilities of introducing a legislative bill for the full request. The fate of that bill will determine how much the University can do for the Pennsylvanians who look to Penn State for instruction and research. It will determine, too, how far tuition fees and charges will have to be raised to make ends meet."

Annie Get Your Gun Is Thespian Show

The Penn State Thespians will present "Annie Get Your Gun" Thursday, Friday, and Saturday, Mar. 12-14, at 7:30 p.m. in Schwab Auditorium and at a special matinee performance at 2 p.m. on Saturday, Mar. 14.

Tickets, priced at \$1.50 for the performances Friday and Saturday and \$1.25 for Thursday, go on sale on Monday, Mar. 9, at 1:30 p.m. at the Hetzel Union Building desk.

Irving Berlin wrote the music and lyrics for the show, which originally starred Ethel Merman on Broadway. The book was written by Dorothy and Herbert Fields. The story tells of Annie Oakley's joining Buffalo Bill's Wild West Show to show off her ability with firearms.

Enrollment Shows Slight Increase

A total of 13,848 students are enrolled on main campus this semester, an increase of 237 over the enrollment last spring.

Off campus enrollment at the 14 centers and campuses and at Mont Alto increased 708 over that of last year to 5,126, making a total enrollment, on and off campus, of 18,974.

An increase in graduate and special student enrollment accounted for almost all the increase on campus. At the centers and other campuses, there was an increase of 245 in the full-time, four-year programs.

Increases in undergraduate enrollment on campus were recorded in the Colleges of Education, Mineral Industries, and Physical Education and Athletics.

A complete summary of enrollments is found on page 2 and 3.

Dr. Hodnett To Continue Seminar On Teaching

Dr. Edward Hodnett, assistant to the president of the Dow Corning Corporation, Midland, Michigan, will be the speaker on the second program of the three-part Seminar on "Excellence in Teaching in a Large University," Thursday, Mar. 12, in Room 10, Sparks Building.

Mark Van Doren, noted professor of English at Columbia University, opened the Seminar, which is a special education project of the University sponsored by the office of the vice-president for academic affairs.

Oxford Man To Give Paper On Science, Religion

Prof. C. A. Coulson, F.R.S., who is the Rouse Ball Professor of Applied Mathematics at the University of Oxford, will present a paper titled, "Science and Religion: A Changing Relationship," on a Faculty Colloquium at 10 a.m., Saturday, Mar. 7, in the main lounge of the Helen Eakin Eisenhower Chapel.

Registrar Reports on Total Campus Enrollment for Spring Semester, 1958-59

	1 Sem	2 Sem	3 Sem	4 Sem	5 Sem	6 Sem	7 Sem	8 Sem	Total
AGRICULTURE									
ABCh	1	13	1	10	1	1	—	6	33
AERS	—	17	1	16	1	16	2	6	59
AgEd	4	27	5	52	7	31	7	33	166
AgJ	—	—	—	—	—	1	—	—	1
Agro	1	4	1	4	—	3	1	7	21
AH	—	22	4	22	5	32	5	25	115
Bact	—	7	—	8	1	10	—	7	33
BPP	—	1	—	1	3	2	—	—	7
Consv	—	—	—	4	—	3	1	4	12
DSc	1	15	1	30	2	21	2	26	98
GnAg	1	16	1	10	1	4	—	14	47
Hort	—	10	—	13	3	13	1	13	53
LArch	—	10	1	13	3	9	3	15	54
MedT	—	27	—	24	—	6	—	14	71
PH	—	2	—	1	—	2	—	1	6
PV	2	29	1	22	—	12	2	—	68
ZE	—	5	—	11	—	26	2	17	61
2AG	—	12	—	2	—	1	—	—	15
School of Forestry									
For	—	2	2	55	5	64	6	52	186
WU	—	2	—	9	1	1	—	9	22
Total	10	221	18	307	33	258	32	249	1128
BUSINESS ADMINISTRATION									
BA	8	248	27	266	57	402	70	345	1423
Total	8	248	27	266	57	402	70	345	1423
CHEMISTRY & PHYSICS									
ChE	—	97	3	61	4	49	9	57	280
Chem	1	47	2	29	7	29	3	19	137
Phys	3	64	2	40	12	32	4	22	179
PM	1	33	1	40	—	19	2	23	119
Sc	—	14	—	8	1	12	1	12	48
Total	5	255	8	178	24	141	19	133	763
EDUCATION									
AEd	1	15	2	29	1	23	2	22	95
Ed	19	334	28	342	49	340	26	230	1368
IArt	—	8	2	15	4	15	3	21	68
MusEd	—	20	3	20	4	25	6	17	95
Psy	5	46	3	73	12	82	15	50	286
VIEd	1	2	1	3	1	3	1	2	14
Total	26	425	39	482	71	488	53	342	1926
ENGINEERING & ARCHITECTURE									
AeroE	—	—	3	59	7	52	6	47	174
AgE	—	21	1	14	1	8	1	12	58
Arch	—	29	2	25	1	19	5	*35	116
AE	—	17	2	8	—	11	1	**17	56
CE	—	—	2	53	9	70	8	64	206
EE	—	—	9	190	48	174	29	183	633
ESc	—	—	—	22	1	21	2	15	61
IE	—	—	4	38	7	59	12	57	177
ME	—	—	4	93	16	84	15	110	322
SE	—	—	—	—	—	2	1	2	5
Engr	31	560	9	—	—	—	—	—	600
Total	31	627	36	502	90	500	80	542	2408
HOME ECONOMICS									
HEc	2	134	1	148	11	110	9	100	515
HA	1	20	2	16	7	20	7	22	95
Total	3	154	3	164	18	130	16	122	610
THE LIBERAL ARTS									
AL	17	300	18	247	40	285	32	198	1137
LMR	—	7	—	8	2	19	5	14	55
School of The Arts									
AArt	1	30	1	23	3	14	2	23	97
Arts	—	14	1	11	2	14	4	16	62
School of Journalism									
Journ	3	48	8	44	3	56	7	41	210
Total	21	399	28	333	50	388	50	292	1561
MINERAL INDUSTRIES									
Cer	1	20	—	10	1	12	—	7	51
FT	1	7	—	11	—	9	—	3	31
Geog	—	—	—	1	—	5	—	11	17
G&G	—	7	2	13	—	6	3	11	42
G&M	1	24	—	14	2	12	—	12	65
Metal	2	54	1	28	—	13	5	26	129
Meteo	—	11	1	10	8	18	26	8	82
MnEc	—	1	—	3	—	4	—	6	14
MPE	—	2	—	2	—	5	2	1	12
Mnge	—	7	—	8	1	11	1	3	31
PNGE	—	13	3	11	2	10	2	16	57
Total	5	146	7	111	14	105	39	104	531

Registrar Reports on Total Campus Enrollment for Spring Semester, 1958-59

	1 Sem		2 Sem		3 Sem		4 Sem		5 Sem		6 Sem		7 Sem		8 Sem		Total
Physical Education & Athletics																	
PhEd	1		67		8		51		9		50		9		48		243
RcEd	—		9		1		2		1		13		2		13		41
Total	1		76		9		53		10		63		11		61		284
Division of Counseling																	
Counseling	9		423		40		320		43		131		15		10		991
Total																	
Undergraduates	119		2974		215		2716		410		2606		385		2200		11,625
	Freshmen		Sophomores		Juniors		Seniors		Graduate		Special		Totals				
	M W		M W		M W		M W		M W		M W		M W		T		
Campus																	
Full-time	2075 1011		2025 894		2202 795		2024 506		559 99		42 13		8927 3318				12245
Part-time	5 2		9 3		13 6		31 24		1009 235		118 148		1185 418				1603
Total on Campus	2080 1013		2034 897		2215 801		2055 530		1568 334		160 161		10112 3736				13848
Centers (See summary below)																	
Full-time (4-Yr)	1145 193		330 56		8 2		1 —		— —		1 —		1485 251				1736
Full-time (2-Yr)	807 22		526 13		1 —		— —		— —		— —		1334 35				1369
Part-time (4-Yr)	12 2		35 1		24 —		— —		— —		18 9		89 12				101
Part-time (2-Yr)	15 —		24 —		1 —		— —		— —		— —		40 —				40
Part-time																	
Ext. Classes	— —		— —		— —		— —		198 118		710 758		908 876				1784
Total Centers	1979 217		915 70		34 2		1 —		198 118		729 767		3856 1174				5030
Mont Alto																	
Full-time	96 —		— —		— —		— —		— —		— —		96 —				96
Total Off Campus	2075 217		915 70		34 2		1 —		198 118		729 767		3952 1174				5126
Total On and Off Campus	4155 1230		2949 967		2249 803		2056 530		1766 452		889 928		14064 4910				
	5385		3916		3052		2586		2218		1817		18974				

Summary of Off-Campus Enrollment, Spring Semester, 1958-59

Centers	Four-Year		Special		Two-Year		
	Full-Time	Part-Time	Full-Time	Part-Time	Full-Time	Part-Time	
Allentown	—	—	—	—	85	4	89
Altoona	216	3	—	7	172	10	408
Behrend	159	15	—	1	72	1	248
DuBois	121	1	—	4	60	2	188
Hazleton	147	1	—	—	103	2	253
McKeesport	—	—	—	—	182	8	190
New Castle	—	—	—	—	52	1	53
New Kensington	—	—	—	—	56	3	59
Ogontz	633	54	—	5	102	3	797
Pottsville	169	—	1	6	63	—	239
Scranton	—	—	—	—	95	—	95
Wilkes-Barre	—	—	—	4	153	1	158
Wyomissing	—	—	—	—	45	—	45
York	—	—	—	—	123	5	128
Mont Alto	96	—	—	—	—	—	96
Total Off Campus	1541	74	1	27	1363	40	3046

Recapitulation

	M	W	Total
Campus			
Full-time undergrad.	8368	3219	11587
Part-time undergrad.	176	183	359
Total undergrad.	8544	3402	11946
Full-time graduate	559	99	658
Part-time graduate	1009	325	1244
Total graduate	1568	334	1902
Total Main Campus	10112	3736	13848
Off Campus			
Full-time undergrad.	2915	286	3201
Part-time undergrad.	129	12	141
Part-time Extension			
Undergrad.	710	758	1468
Graduate	198	118	316
Total Off Campus	3952	1174	5126
On and Off Campus			
Full-time undergrad.	11283	3505	14788
Part-time undergrad.	1015	953	1968
Full-time graduate	559	99	658
Part-time graduate	1207	353	1560
Total	14064	4910	18974

Graduate and Special Students by Colleges

	Graduate		Special	
	M	W	M	W
Agriculture	277	18	25	3
Business Admin.	75	1	8	10
Chem. and Phys.	246	18	19	2
Home Economics	6	61	—	12
Liberal Arts	174	73	22	65
Education	365	138	47	64
Eng. and Arch.	168	—	23	3
Mineral Ind.	208	5	15	1
Phy. Ed. and Ath.	29	10	1	1
General Graduate	20	10	—	—
Total	1568	334	160	161
	1902		321	

Calendar

Friday, Mar. 6

Opening performance of Center Stage production of "Theatre Omnibus," 8 p.m., Center Stage.

Lecture-reception, with Roy Gussow, professor of design, North Carolina State College, on "Trends in Contemporary Sculpture." Lecture at 8 p.m., HUB Auditorium; reception at 9 p.m., HUB Lounge.

Mineral Industries Colloquium, Mineral Industries Auditorium, 4:15 p.m. Dr. B. F. Oliver, assistant professor of metallurgy, on "The Role of Zone Melting in Research."

Saturday, Mar. 7

Center Stage production of "Theatre Omnibus," 8 p.m.

Faculty Colloquium, 10 a.m., Memorial Lounge, Helen Eakin Eisenhower Chapel. Prof. C. A. Coulson, F.R.S., University of Oxford, on "Science and Religion: A Changing Relationship." Lunch to follow in HUB.

Lecture-Dinner, 6 p.m., Wesley Foundation, with Bishop Fred P. Corson, The Methodist Church, Philadelphia, speaking on "The Role of the Church in Higher Education." Sponsored by the University Christian Association.

Sunday, Mar. 8

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Rev. Donald Cutler.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Bishop Fred P. Corson, The Methodist Church, Philadelphia.

Monday, Mar. 9

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Roy D. Anthony, Burgess of State College, on "The Job of a Burgess."

Meeting of American Association of University Professors, 7:30 p.m., Room 209, Willard Building. Discussions on University Hospital Plan.

Vesper Service of Worship, 4:15 p.m. Introduction to music of Johann Sebastian Bach.

American Statistical Association meeting, 5 p.m., Room 201 Willard Building. Dr. George E. Brandow, professor of agricultural economics, on "Bias in a Difference Equation Model."

Graduate Mining Seminar, 3:30 p.m., Room 24, Mineral Industries. Young C. Kim, on "Core Recovery in Diamond Drilling."

Linear Programming Seminar, 11 a.m., Room 101 Hunt.

Mineral Economics Seminar, 4:10 p.m., Room 121, Mineral Industries.

American Chemical Society meeting, 8 p.m., Mineral Industries Auditorium. Dr. Lewis F. Hatch, graduate professor, University of Texas, on "The Oxo Process."

Engineering Mechanics Seminar, 4:15 p.m., Room 203, Engineering "A". Dr. E. R. Fitzgerald, associate professor of physics, on "Lattice Energy on Ionic Crystals."

Tuesday, Mar. 10

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. Dr. Joseph L. Fisher, associate director. Resources for Future, on "Economics and Related Research in National Resources."

American Society for Metals, 7:30 p.m., Mineral Industries Auditorium. Dr. A. P. Beard, Knowles Atomic Power Laboratory, General Electric Co., on "The Metallurgy of Nuclear Fuels."

Wednesday, Mar. 11

Lecture by Dr. Thomas D. Clark, distinguished visiting professor of history, on "The South in Transition," 8 p.m., Room 121, Sparks.

Die Casting Institute program on "Designing for Die Casting," 7 to 10 p.m., Room 110, Electrical Engineering. William Feil, Aluminum Co. of America, and Gordon Currie, Alcoa.

Thursday, Mar. 12

Seminar on Excellence in Teaching, 8 p.m., Room 10, Sparks. Dr. Edward Hodnett, assistant to the president, Dow Corning Corp., on "The Public's Stake in Excellence in Higher Education."

Vesper Service of Worship, 4:15 p.m., Helen Eakin Eisenhower Chapel. Introduction to music of Johann Sebastian Bach.

Meeting of faculty of College of the Liberal Arts, 4:15 p.m., Room 121, Sparks.

Meeting of Central Penna. section, Society of Industrial and Applied Mathematics, 8 p.m., Room 203, Willard Building. Dr. Lowell Schoenfeld, associate professor of mathematics, on "Application of Mathematics to the

Quantum Theory of Longitudinal Magneto-Resistance."

Meeting of faculty, College of Business Administration, 4:10 p.m., Room 111, Boucke Building.

Opening night of Thespian Show, "Annie Get Your Gun," 7:30 p.m., Schwab Auditorium.

Friday, Mar. 13

Meeting, faculty of the College of Agriculture, 4:10 p.m., Room 109, Armsby.

Thespian Show, "Annie Get Your Gun," 7:30 p.m., Schwab Auditorium.

Players production of "Theatre Omnibus," 8 p.m., Center Stage.

Distinguished Lecture Series in Philosophy, 8 p.m., Room 121, Sparks. Dr. Stephen Toulmin, distinguished visiting professor from University of Leeds, on "Matter, Life, and Spirits."

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. P. L. Walker, head, department of fuel technology, on "The Nature of Carbon Formed From Carbon Monoxide Decomposition over Iron."

Bishop Corson To Speak At Dinner Tomorrow

Bishop Fred P. Corson, of the Methodist Church of Philadelphia, will speak on "The Role of the Church in Higher Education" at a dinner-lecture sponsored by the University Christian Association tomorrow evening at 6 p.m. at the Wesley Foundation.

Tickets, priced at \$1.50, may be obtained at the door. Reservations may be made by phoning Mrs. Latham, Ext. 541.

Prof. Christian Baeta, chairman of the Christian Council, of Ghana, now visiting professor at Union Theological Seminary, will be the guest speaker on Saturday, Mar. 14 in dining room "A", of the HUB, at 6 p.m. Reservations for this dinner-lecture, to cost \$1.75, must be made by Mar. 12.

Marine Band Leader To Conduct At Festival

Lt. Col. William F. Santelman, leader of the U.S. Marine Band from 1940 until 1955, will be the guest conductor for the 12th annual Pennsylvania Intercollegiate Band Festival on Mar. 19-21.

The final concert will be held at 8 p.m. on Saturday, Mar. 21, in Schwab Auditorium. Tickets for the concert will go on sale at 1 p.m. at the HUB desk and also at 216, Carnegie Bldg. They are priced at \$1.

James W. Dunlop, professor of music education who conducts the Penn State Blue Band, says that 140 college students representing 34 colleges of the State will participate in the Festival.

Credit Union Accepting Membership Applications

Applications for membership in the new University Park Federal Credit Union, open to all University employees at the University Park campus, are being received by the treasurer, Lawrence F. Marriott, assistant professor of soil technology, at his residence, 626 E. Waring Ave. Applications may be obtained from him or from other members of the board of directors, including G. M. Moser, president; F. C. Fliegel, vice-president; Mrs. Bertha Mather, clerk, and Charles M. Long.

The Union has already enrolled about 25 members and the first loan has been processed.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

Mar. 1—Dr. Luther H. Harshbarger, University chaplain.

Mar. 8—Bishop Fred P. Corson, The Methodist Church, Philadelphia, Pa.

Mar. 15—Dr. Christian Baeta, University College, Achimota, Ghana.

Mar. 22—Easter Choral Service.

CONCERTS

Mar. 19—Dance Concert by The Dance Drama Co.

Fire Alarm Systems To Be Tested Next Week

A test of the fire alarm systems in 28 academic buildings and dining halls will be conducted next week to check the mechanical operation of the systems and to familiarize occupants of the buildings with the alarms.

The tests will be conducted by members of the staff of the department of security, headed by E. F. Olver, aided by members of the department of maintenance. No physical actions on the part of students or faculty members is required.

"However, we hope that occupants of the building will take this opportunity to consider what they would do in case their building were actually on fire," Olver explains.

Since situations in various buildings differ considerably, generalizations cannot be made about the specific course of action occupants should take in case of emergency, Olver explains. In most cases, he adds, the person should try to reach the nearest exit as quickly as reasonable, but in some areas this may not be the best course of action.

Announcement of the tests will be placed in all classrooms and offices prior to the test. The complete schedule of tests is given below so that occupants of the buildings will know when to expect the alarm.

Tuesday Morning, March 10

Pond Lab, 8:15; Burrows Building, 8:30; Chapel, 9:00; Library, 9:30; Sparks Building, 10:00; Carnegie Hall, 10:20; Waring Dining Hall, 10:45; Rec Hall Addition, 11:15; Nittany Lion Inn, 11:40.

Wednesday Morning, March 11

Whitmore Lab, 8:15; Osmond Lab, 8:45; Boucke Building, 9:15; Buckhout Lab, 9:40; Frear Lab, 10:00; Forestry Building, 10:20; Tyson Building, 10:45; Ag. Engineering, 11:15; Dairy, 11:40.

Thursday Morning, March 12

Redifer Hall, 8:15; Infirmary, 8:35; HUB, 8:55; Home Economics, 9:20; Old Main, 9:45; Sackett Building, 10:10; Electrical Eng., 10:35; Willard Hall, 11:00; Mineral Sciences, 11:25; Mech. Engineering, 11:50.

AAUP Meeting Monday

An open meeting of the Penn State chapter of the American Association of University Professors will be held on Monday, Mar. 9 at 7:30 p.m. in Room 209, Willard, to discuss explorations of proposed changes to be recommended in the University hospital insurance plan.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Students Help Themselves To Learn In Pyramid Study

HOPING to help students help themselves to a better education, six departments on campus have built experimental "Pyramids" this semester.

The six — psychology, chemical engineering, metallurgy, meteorology, German, and sociology — have somewhat different detailed purposes in their programs but all basically subscribe to the overall objective of "Pyramid": to promote in students strong personal involvement in scholarly work.

The Pyramid project, under the Division of Academic Research and Services, was started in the 1957-58 academic year in the department of psychology, with Dr. Robert H. Davage, assistant professor of psychology, in charge. It was confined to psychology for the year to see what promise it had; since the early results seemed encouraging, other departments were invited to develop their projects this year.

Pyramids are built with a number of small work-study groups at the base, each group being composed of four to six freshmen, perhaps a like number of sophomores, one or two juniors and a senior.

The juniors and seniors in the work-study groups are also part of a development group, which includes graduate assistants. The seniors and the graduate students are part of the planning group, which is directed by a faculty member.

In theory, and pretty largely in practice also, the faculty member doesn't see the freshmen and sophomores, but plans and carries out his objectives through the graduate students and the seniors and juniors, who are work-study leaders.

In the department of psychology for three semesters of the experimental program, Dr. Davage himself was the faculty leader; Dr. Arthur Brayfield, head of the department, is leader for the present semester.

The basic aim of the work-study groups for students majoring in psychology, apart from providing them with an understanding of their profession, has been to help students develop the attitudes, knowledge, and skills to enable them to pursue all their academic work with greater motivation, resourcefulness, and independence. Although discussions and work sessions focused on psychological subject matter, it was not the particular topics so much as the discussion techniques that were designed to promote changes in the students.

The major-centered approach to Pyramid is being explored this year in the departments of metallurgy, chemical engineering, and psychology, but in the other three areas — German, sociology, and meteorology — the subject-centered Pyramid has developed.

In Sociology, Dr. Judith K. Leventman is in charge of the program which supplements the formal course work of Soc. 1, taught on closed-circuit televi-

sion. Last semester 60 students (this semester 70) volunteered to spend two hours extra each week for the study. These students were assigned randomly to experimental and control groups. Additional information beyond what the students ordinarily got via television was provided for the work-study groups through the senior and junior leaders. Dr. Leventman meets weekly with the leaders, going over materials she had selected for discussion.

Pyramid was also used to supplement television instruction of Meteorology 300, a survey course taken by students from many areas. In this case, however, Dr. Hans Neuberger, head of the department, replaced one hour of his lecture with the work-study group. Control groups were given the lecture. Seniors and graduate students led the discussions. Of the total of 140 students in the televised course last semester 70 students were in the experimental sections, 14 in each group.

The Pyramid developed by the department of German was also course-centered, designed in this case to help in developing skill in speaking German. Dr. Philip Shelley, head of the department selected two native speakers, Mrs.

(Continued on page three)

With a Pyramid group of students in the background, Dr. Judith Leventman, sociology, and Dr. Robert Davage, psychology, discuss the project which is attempting to develop more student participation in their educational process.



Senate Minutes

Minutes of the Meeting of March 5, 1959

The University Senate met at 4:15 p.m., on Thursday, March 5, 1959, in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the February 5 meeting were approved as printed in the Faculty Bulletin for February 13, 1959. 156 senators signed the roll.

COMMUNICATIONS FROM UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: L. C. Hunt (R. H. Holtzman), A. W. VanderMeer (Joseph Alesandro), D. R. McClay (N. K. Hoover), Edna Sommerfeld (Eva D. Wilson), H. A. Panofsky (R. T. Duquet), G. H. Ward (A. S. Carney), E. L. Keller (T. S. Goas), A. J. Shaler (A. I. Muan), and B. F. Snively (R. F. Marboe).

From K. L. Holderman, Chairman of the SENATE COMMITTEE ON COMMITTEES, the appointment of Miss Joan Nessler to replace Miss Marie Haidt on the Senate Committee on Courses of Study for the remainder of this academic year.

From R. G. Bernreuter, Dean of Admissions, the following:

"On May 29, 1958, the Senate approved a revision of Rule E-3, governing graduation requirements. The revision was considered desirable to provide a more flexible interpretation of periods of residence on the University Park Campus and other campuses and centers of the University. The rule functions well in that regard.

"However, the revised rule has created problems with students transferring to the Penn State campus from other colleges and universities. Formerly, it was possible for a student to transfer to Penn State and receive credit toward graduation for two and one half to three years of work taken at other universities. The rule, as now stated, makes it possible to grant such a transfer student only approximately two years of transfer credit toward graduation at Penn State. In effect, any student who has completed more than four semesters in another university and wishes to transfer to Penn State, will have to sacrifice a semester or more of work taken in the other university. I would like to suggest the Senate consider amending Rule E-3 to make it possible for students to transfer to this University under the same standards set forth in the 1957-58 Senate Regulations for Undergraduate Students."

The president referred this communication to the Senate Committee on Admissions.

From H. K. Schilling, Dean of the Graduate School, the following:

"The Graduate School has for some years had legislation specifying under what conditions undergraduates might be admitted to 500 level courses. The pertinent Graduate School regulation appears on page 66 of the current (1956-57) Manual for Graduate Students and reads as follows:

Senior Student Privileges

A senior student of The Pennsylvania State University lacking not more than 4 credits for graduation may be admitted to the Graduate School. This limit of 4 credits may be increased to 8 in the case of a student with an average of at least B (a grade point average of 3). Other senior students, while not admitted to the Graduate School, may, if their records are superior, be admitted to graduate courses (500 series) upon the approval of the instructor of the course to which the student desires admission, and of the Dean of the Graduate School.

"There also appears in the Undergraduate Catalog, page 284, under the heading of Course Numbering System the following statement:

Graduate Courses (500 to 599): Courses for graduate students only. These are described in the Graduate School Announcement. Senior students not required to carry a full program for graduation, with permission of the Dean of the College in which they are enrolled and of the Dean of the Graduate School, may attend such courses and be allowed graduate credit under special conditions.

"Occasionally the Dean of the Graduate School has also granted outstanding juniors the privilege of registering for 500 level courses.

"As the Dean of Admissions has pointed out, these policies and practices are in violation of Senate Regulation I-if which specifies simply that 500 level courses are open only to graduate students, as follows:

f. Any "500" course. Such courses are open only to graduate students.

"In behalf of the Graduate School Faculty I petition the Senate to legalize these practices and policies of the Graduate School by appropriate modification of Senate regulation I-if."

President Walker referred this communication to the Senate Committee on Academic Standards.

REPORTS OF STANDING COMMITTEES

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, moved adoption of the report which had been distributed with the agenda as Appendix "A". The motion was seconded and passed. This report included a Dual Degree Program in Liberal Arts and Engineering. The report is on file in the office of the secretary.

A. D. Brickman, Chairman of the SENATE COMMITTEE ON ACADEMIC STANDARDS, presented the report which had been distributed with the agenda as Appendix "B" and moved its adoption. The motion was seconded and passed. The report contained the following recommendation:

"The Senate Committee on Academic Standards recommends to the University Senate that Item E-7 of the Senate Regulations for Undergraduate Students, 1958-59, be abolished. This item reads as follows:

A student who desires to earn a second bachelor's degree may not take the periods of residence for the first and for the second degree concurrently.

E. P. Nye, Chairman of the SENATE COMMITTEE ON STUDENT AFFAIRS, asked that the report of the Committee which had been distributed with the agenda as Appendix "C", and which contained a proposal for a change in Rule Y-8 of the Regulations for Undergraduate Students, 1958-59, and an editorial change in Article II, Section 1 (n) of the By-Laws, be withdrawn for further study. He stated that an open meeting would be held in the Board Room in Old Main on March 19 at 3 p.m. to discuss this proposed change.

Mr. Brickman asked that the report of the SENATE COMMITTEE ON ACADEMIC STANDARDS which had been distributed with the agenda as Appendix "D" and which contained recommendations for a change in Rule E-3 and deletion of Rule E-11 of the regulations for Undergraduate Students, 1958-59, be withdrawn for modification.

Mr. Holderman, Chairman of the SENATE COMMITTEE ON COMMITTEES, urged any senator who had not been contacted with reference to his preference for membership on a Senate committee to get in touch with the representative of his College on the Committee on Committees.

COMMENTS AND RECOMMENDATIONS FOR THE GOOD OF THE UNIVERSITY

President Walker referred to the Honors Programs as discussed at the January meeting of the Senate and suggested that the Senate Committee on Academic Standards should set up minimum standards for honors programs.

The President expressed disappointment in the Governor's budget but was happy that Penn State was recommended to receive a 15% increase over the appropriation for the present biennium which would enable the Administration to give raises to the members of the faculty.

The next regular meeting of the Senate will be on April 2, 1959 in Room 121 Sparks Building. The agenda will be distributed on March 19, 1959.

The meeting adjourned at 4:30 p.m.

Robert G. Bernreuter
Secretary

Brittons On Telecast Of Men And Ideas

"The Role of Grandparents in a Changing Family" is the subject of next week's programs of the "Penn State: Its Men and Ideas" telecast over WF-BG-TV from the campus on Mar. 16 and 18 at 9:50 a.m.

Dr. Joseph H. Britton, Associate professor of child development and family relationships, and Dr. Jean O. Britton, part-time assistant professor of psychology, will discuss the subject with Dr. Winona L. Morgan.

Agricultural Extension Makes Administrative Changes

Administrative changes in agricultural and home economics extension have been announced by director Herbert R. Albrecht.

Dr. Fred R. Robertson, Jr., specialist in agricultural policy and public affairs was made assistant to Dr. Albrecht to take charge of coordination and development of extension programs.

For program development purposes all extension subjects have been grouped under four main sciences, with a chairman for each unit: Animal Sciences, Joe S. Taylor, dairy science chairman; Plant Sciences, James H. Eakin, Jr., agronomist; Social Sciences, Frederick A. Hughes, farm management specialist; and Physical Sciences, Ralph E. Patterson, agricultural engineering chairman.

A committee of four county agents and two extension home economists was named to represent extension personnel in the counties under the new setup: R. H. McDougall, John H. Holbert, Frank S. Zettle, E. J. Dieffenbach, Miss Frances Vannoy, and Mrs. Kathleen O. Zumbro.

Panel Discussion Ends Seminar On Teaching

The third and concluding program in the three-part Seminar on Excellence in Teaching in a Large University will be held on Wednesday, Mar. 18, at 8 p.m. in Room 121, Sparks Building.

A panel discussion on the topic "Achieving Excellence in Teaching at Penn State" will be led by Dr. Paul M. Althouse, professor of agricultural and biological chemistry.

Included on the panel are Ralph E. Armington, associate professor of electrical engineering; Dr. Henry A. Finch, professor of philosophy; Dr. Katherine H. Fisher, associate professor of foods and nutrition; Dr. Amos J. Shaler, head of the department of metallurgy, and Dr. Lawrence L. Werboff, assistant professor of economics.

Dr. Toulmin To Give Lecture In Philosophy

Dr. Stephen Toulmin, who holds the chair in philosophy at the University of Leeds, England, will present a lecture titled "Matter, Life, and Spirits," at 8 p.m. in Room 121, Sparks Building in the Distinguished Lecture Series in Philosophy.

Author of *Reason and Ethics*, *Philosophy of Science*, and *The Uses of Argument*, Dr. Toulmin has also produced a film titled, *Earth and Sky*. Educated at Cambridge University, he has served at King's College, Cambridge, at Oxford, and as exchange professor at the University of Melbourne.

In addition to the public talk today, Dr. Toulmin will also talk to the philosophy staff and others interested on "How Concepts Develop," tomorrow at 10 a.m. in Room 217, Willard Building.

Students Help —

(Continued from page one)
E. J. Skudrzyk and Mrs. R. O. Shadel, as senior leaders. A graduate student, Frank Entiero, is liaison between Dr. Shelley and the leaders.

The opportunity to speak German in the regular courses, Dr. Shelley points out, is limited because there is so little time in which to develop grammar and the written language. This semester the spoken language has been taken out of German 1, 2, and 3 and retained only in the Pyramid groups. These groups meet for 90 minutes each week and, although no credit is given, 180 students out of a potential of 380 volunteered for the project. They were divided into experimental and control groups, averaging about 11 students per group.

An elaborate oral examination was developed last semester involving taped recordings of German conversation.

In chemical engineering and in metallurgy, as well as in psychology, the Pyramid is built around the major students. In chemical engineering, Dr. Edwin T. Williams has developed the Pyramid primarily to orient the freshmen and sophomores to their chosen profession and also to help them recognize their opportunities and responsibilities as students. The senior leaders spend ten hours per week on Pyramid including the two hours they meet with the underclassmen; junior leaders spend six hours. Two graduate assistants are half-time on the project. Williams meets with the seniors and juniors directly but the graduate students do much of the detailed work. A total of 180 students were part of the experimental project last semester.

In metallurgy, Dr. Amos J. Shaler, head of the department, developed a pyramid notable in its singular concentration on one objective: development of student leaders. Looking over the past, Dr. Shaler found that the quality of a class depended, at least to some extent, on the quality of its student leaders. A class which began with many good leaders would graduate a high percentage; a class with few leaders would suffer a high attrition.

"Our viewpoint," Dr. Shaler says, "was that getting leaders early, in the freshman class, would help the entire class."

Two senior students were picked as leaders. Each group in Pyramid consisted of six freshmen, three sophomores, and two juniors. The sophomores were especially selected, and were paid a nominal amount for their part. The freshmen were randomly selected.

Dr. Shaler himself met one hour weekly with the graduate students and the seniors, and with the juniors on occasion. Readings on education's purposes, goals, etc. (as typified by "On Becoming Educated," by Voeks) were assigned to the students and were discussed in the work-study groups.

At registration for the current semester, Dr. Shaler asked all freshmen who obtained a 2.7 average in the first semester if they would like to be part of

a Pyramid group again this semester. No inducements, such as money or credit, were offered. Of the 16 potentials, 15 said yes, five of them from last semester's program. The same general topics are being discussed this semester.

Testing

In all cases some measurements of the success of Pyramid are being made through skill, attitudinal and information tests, the results of which are still to be studied. Observations of the work-study groups have indicated that after the initial "shock" period, most of the students do participate in the discussions.

In chemical engineering some of the values will be revealed by results of tests given in problem solving, reading speed, critical thinking, and attitudes. In German, the oral examinations will reflect the development of speaking skill. Several exams are given to the students on sociology — attitudinal, application of principles of Sociology to specific problems of analysis, and essays.

The results of the first-year's experience in Psychology were measured in a great many ways and they indicated (1) there was qualitative improvement in student learning among Pyramid groups; (2) there would probably be better utilization of teaching resources; (3) student reaction was favorable; and (4) the methods would be applicable to other colleges and departments.

In most departments there is the feeling that Pyramid is contributing to the accomplishment of their goals. Dr. Shaler would like to continue beyond this semester. Dr. Williams feels that although it takes much of his time the Pyramid method is helping to reach goals which would require considerably more time if done in conventional manner.

Says Dr. Davage: "Each department will have to decide for itself whether the Pyramid method is applicable to its instruction program.

"The factors of cost may be decisive, but costs must be weighed first against what is gained and secondly against the cost of alternative methods that might accomplish the same goals. Actually, in the absolute sense, the cost should be low once the experimental work is over.

"Availability and quality of senior and junior leaders will also be important, because without good upper-classmen, the Pyramid lacks one of its essential elements. However, Pyramid is unusually self-supporting in this respect because it identifies potential leaders at the freshman level and gives them progressively more leadership training as they come up through the Pyramid system.

"Of course the most important ingredients of successful Pyramids are the freshmen and sophomores. The Pyramid technique may make it easier for the student to pursue intense scholarly work by creating an intellectual atmosphere on campus, but in the final analysis it is the student who must do the work.

Dr. Herberg To Present Lecture In Religion

Dr. Will Herberg, graduate professor of Judaic Studies and social philosophy at Drew University and graduate professor of contemporary theology in the Graduate School, will present the next Lecture in Religion on Thursday, Mar. 19, at 8 p.m. in Room 121, Sparks Building.

The lecture, titled "Faith, History, and Self-Understanding: An Exploration of World Views," is sponsored by the Faculty Committee on Religious Studies, in the College of the Liberal Arts.

Dr. Herberg, who is also currently on the staff of the Washington School of Psychiatry, is well known for his work in social research and theology. For many years he has served as a research analyst for a large AFL labor union. He is the author of "Judaism and Modern Man: An Interpretation of Jewish Religion" and "Protestant-Catholic-Jew: An Essay in American Religious Sociology."

Research Grant Application Due

Applications for grants-in-aid for research from the Administrative Committee on Research are to be filed no later than April 25 in order for the grants to be available by July 1, according to Dr. M. A. Farrell, Vice President for Research.

Applications should be filed with the dean of the college, in whose office forms are now available.

The intent of the University is that the fund be used primarily to promote fundamental research and creative studies, since support for applied research is more readily available from other sources. Grants are made for one year, and individual sums allocated are determined after all requests and the over-all picture of the needs have been considered.

The grants usually range from \$100 to \$300. In a few instances grants are made for larger sums to meet special needs.

The grants may be used for purposes specifically relevant to the particular investigations for which the grants are made, but are not usually given for general purposes such as attending meetings of learned or professional societies or for increasing departmental research equipment.

For more information consult the college representative on the Administrative Committee on Research.

McNerney Resigns

Dr. Chester T. McNerney, who has served on the faculty for the past ten years as professor of education, will resign July 1 to become dean of the College of Education at the University of Akron.

Calendar

Friday, Mar. 13

Meeting, faculty of the College of Agriculture, 4:10 p.m., Room 109, Armsby.
Thespian Show, "Annie Get Your Gun," 7:30 p.m., Schwab Auditorium.
Players production of "Theatre Omnibus," 8 p.m., Center Stage.
Distinguished Lecture Series in Philosophy, 8 p.m., Room 121, Sparks. Dr. Stephen Toulmin, distinguished visiting professor from University of Leeds, on "Matter, Life, and Spirits."
Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. P. L. Walker, head, department of fuel technology, on "The Nature of Carbon Formed From Carbon Monoxide Decomposition over Iron."
Fluid Mechanics Seminar, 4:15 p.m., Room 105 Mechanical Engineering. Dr. Hans A. Panofsky, professor of meteorology, on "The Spectrum of Normal Velocities Near a Boundary."

Saturday, Mar. 14

Thespian Show, "Annie Get Your Gun," 2 p.m. and 7:30 p.m., Schwab Auditorium.
Players production of "Theatre Omnibus," 8 p.m., Center Stage.
American Chemical Society, Central Pennsylvania Section, "Meeting in Miniature," 9 a.m. to 5 p.m.
Faculty dinner-lecture, 6 p.m., HUB dining room "A," The Rev. Christian Baeta, University College, Ghana.

Sunday, Mar. 15

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Reverend Theodore Braun.
Roman Catholic Mass, 9 a.m., Schwab Auditorium.
Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Christian Baeta, University College, Achimota, Ghana.
Program of films on Israel, at Hillel Foundation, 7:30 p.m.

Monday, Mar. 16

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Dr. Donald H. Ford, director of the Division of Counseling, on "Can Student Performance Be Improved by Counseling Parents?"
State College Color Slide Club, 7:30 p.m., with recorded lecture by Fred Archer, on "My Camera in Search of a Subject." Robert E. Tschan judging slides of "Winter Scenes."
Linear programming seminar, 11 a.m., Room 101, Hunt Building.
Mineral Economics Seminar, 4:10 p.m., Room 121, Mineral Industries. Dr. J. D. Ridge, on "Taconite Geology, Exploration, and Reserves."
Vesper Service, 4:15 p.m., Helen Eakin Eisenhower Chapel. Roman Catholic Mass.
Engineering Mechanics Seminar, 4:15 p.m., Room 203, Engineering "A." Dr. E. R. Fitzgerald, associate professor of physics, on "Atomic Structures and Mechanical Properties of Solids."
American Statistical Association meeting, 5 p.m., Room 201 Willard Building. Dr. S. F. Mack, assistant professor of mathematics, on "Combinatorial Analysis" (continued).

Tuesday, Mar. 17

Economics Faculty Seminar, 12 noon, dining room "A," Hetzel Union Building. Dr. Edwin Nourse, distinguished visiting professor of economics research, on "Interpreting and Implementing the Employment Act of 1946."
American Society of Mechanical Engineers meeting, 7:30 p.m., Room 105, Mechanical Engineering Building. Thomas E. Sterling, University patent attorney, on "Patents and the Engineer."
Physics Colloquium, 4:15 p.m., Room 117, Osmond Lab. Dr. W. Gale Cutler, assistant research physicist, Whirlpool Corp., on "Dynamic Surface Tension of Solutions."
Sigma Gamma Epsilon meeting, 8 p.m., Helen Eakin Eisenhower Chapel. Dr. F. A. Hummel, professor of ceramic technology, on "Ceramics—Oldest Art and Newest Science."

Wednesday, Mar. 18

Seminar on Excellence in Teaching in a Large University, panel discussion, 8 p.m., Room 121, Sparks, with P. M. Althouse, R. E. Armington, H. A. Finch, K. F. Fisher, A. J. Shaler, and L. L. Werboff.

Thursday, Mar. 19

Lecture in Religion, 8 p.m., Room 121, Sparks Building. Dr. Will Herberg, Drew University, on "Faith, History, and Self-Understanding: An Exploration of World Views."
Lecture by Dr. W. D. Kingary, associate professor of ceramics, Massachusetts Institute of Technology, 4:15 p.m., Mineral Industries Auditorium, on "Kinetics of Ceramic Processes."

Vesper Service of Worship, 4:15 p.m., Helen Eakin Eisenhower Chapel, Roman Catholic Mass.

Central Pennsylvania Chapter, Society for the Advancement of Management, meeting, dinner at Home Economics Cafeteria. Joint meeting with student chapter.

Artists Series program by the Dance Drama Co., with Emily Frankel, 8:30 p.m., Schwab Auditorium.

Agricultural Economics Visiting Professor Dr. Charles M. Hardin, professor of political science, University of Chicago, will lead discussion on "The American Political Crisis," 7:30 p.m., Room 212, Hetzel Union Building.

Friday, Mar. 20

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. W. D. Kingary, associate professor of ceramics, Massachusetts Institute of Technology, on "Sintering in the Presence of a Reactive Liquid."

Lecture by Dr. Henry Margenau, 12 noon, Room 119, Osmond Lab, on "Recent Interpretations of Quantum Mechanics."

Tickets On Sale Monday For Artists Series

Tickets for the next program of the Artists Series, the Dance Drama Co. with Emily Frankel, will be distributed to non-residents beginning at 9 a.m., Tuesday in the Hetzel Union Building and continuing through Wednesday. The program will be given at 8:30 p.m., Thursday, Mar. 19, in Schwab Auditorium.

Items of Interest

• Articles and Papers

Robert Enggass, art and architecture, article "Drawings Related to the Czernin Holy Family by Gaulli," in The Art Quarterly, Autumn issue.

James Gemmell, education, articles titled "The Role of Businessmen in Formulating National Policy," in Finnish magazine, "Liiketalous."

E. A. Myers, economics, article titled "Revenue Estimation and State Fiscal Management," in National Tax Journal, Dec. issue.

• Elected or Appointed

M. E. John, agricultural economics and rural sociology, to Economics Research Advisory Committee, U.S. Department of Agriculture.

A. L. Harnett, Jr., physical education, to a national advisory committee representing the American Association for Health, Physical Education, and Recreation, to plan a classroom film.

E. B. Hale, poultry husbandry, to the editorial staff of "Animal Behaviour."

Phyllis R. Griess, geography, to assist editor in chief in revision of materials on physical geography for Collier's Encyclopedia.

• Books

R. T. Oliver, "Effective Speech for Democratic Living," published by Prentice-Hall.

A. V. Kozak, mathematics education, assist in preparation of chapter for "Mathematics of Finance," published by Pitman Publishing Corp.

Mary Brown Allgood, home economics, revision of "Demonstration Techniques," published by Prentice-Hall.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium
April 5—The University chaplain, Dr. Luther H. Harshbarger.
April 12—Dr. James McLeod, dean of students, Northwestern University.
April 19—Dr. Joseph Haroutunian, professor of theology, McCormick Theological Seminar, Chicago.

CONCERTS

April 5—Organ recital by George Ceiga, University organist.
April 7—Artists Series program by Nathan Milstein.

DRAMATICS

April 10—Players production of new play, "Iphigenia at Aulis" by Russell Graves. Continues weekends until May 16.
May 7-9—Players production of "The Boy Friend," by Sandy Wilson, Schwab Auditorium.

LECTURES

April 2—Graduate School Lecture by Gerald P. Kuiper, astronomer, University of Chicago, on "The Surface Features of the Moon."
April 3—Julian Marias, writer and lecturer, on Distinguished Lecture Series in Philosophy.

• The Arts

George Pappas, and wife, in joint showing of oil paintings, pottery, and wood cut prints at Edinboro State Teachers College recently.

S. H. Frost, art, pen and ink drawing, "Tree House," purchased recently by the Pennsylvania Academy of Fine Arts for permanent collection.

• Lectures

S. E. Thompson, hotel and institution administration, in Washington, before National Restaurant Association, "The Development of Executive Skill," and "Principles of Personnel Management," this week.

H. B. Palmer, fuel technology, at seminar at Atlantic Research Corp., Alexandria, Va., on "Shock Tube Chemistry," on Mar. 10, and on same subject at annual meeting of Project Squid at The Johns Hopkins University the following day.

W. M. Smith, Jr., family relationships, at annual meeting, Ohio Council on Family Relations, on "The Family Life Movement: Perspective and Prospects."

T. S. Spicer, fuel technology, Society of Mining Engineers meeting recently, on "Coal Characteristics and Their Relationship to Combustion Techniques."

C. L. Hosler, meteorology, at Pilot Clinic, co-sponsored by the Foundation for Instrumentation Education and Research, Inc., and the American Meteorology Society, recently, on "Some Suggestions for Improvement of Measurements of Cloud Parameters."

Jean O. Britton, psychology, at 8th annual meeting, Louisville Conference on Children Under Six, recently, on "What Is Education for Children Under Six" and "You Dare to Teach."

There will be no meeting of the Graduate School Faculty on Mar. 19 as previously announced. The next meeting will be held on April 16.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Radio Station WDFM Seeks To Widen Audience, Service

RADIO station WDFM — operated by a 70-man staff of Penn State students — has a primary purpose of training in the radio arts. As far as the station's faithful listeners are concerned, the students are developing their art well.

Credit for the near-professional quality of the job done by the station should be split two ways: (1) the tireless zeal of the staff; and (2) the advisory talents of Dr. Harold E. Nelson, associate professor of speech, who has been connected with the station since its origination in 1953.

For a hard-core nucleus of listeners who happen to own FM (frequency modulation) radio receivers, WDFM is a welcome and refreshing source of good music each evening. For nearly half of the 34 hours of broadcast schedule the program is made up of classical music.

Other radio listeners have been exposed to WDFM through the 12 hours of broadcasts originating with WDFM and heard simultaneously over WMAJ.

Although WDFM is student operated and obtains its life blood from student fees, probably less than half the student body hears the station regularly because they have no access to FM receivers. The ambition of the station staff is to extend its listening audience to the entire student body and to more people in the area.

"The challenge of a larger audience," says Dr. Nelson, "would be stimulating to the staff."

Although efforts to obtain an AM license are for the moment quiet, a recent development promises to add greater stature to the station in another direction. Negotiations are underway to add WDFM to a network of FM stations stretching from New England to Pennsylvania. Eventually the network may reach into Canada and south to Washington, D.C., linking educational

stations on the east coast to bring fine programs originating at every station in the network.

"Presumably," says Dr. Nelson, "the network will have available such programs as live broadcasts of symphonies, United Nations sessions, collegiate productions of unusual interest, and, if Canadian stations affiliate, broadcasts of the CBC."

The negotiations for joining the network constitute but one more step in WDFM's efforts to develop. Only recently the station was completely reorganized and improved, with new transmitting equipment and a second studio added. Stereophonic equipment was also installed and broadcasts of stereophonic recordings and of the Blue Band (live) have already been made with WMAJ. Listeners who have both AM and FM receivers have applauded the move.

These dramatic efforts to do a thorough job of broadcasting may tend to overshadow the day-to-day job being done by the students, who are to be

complimented for their imagination, initiative, and willingness to work in providing a well-balanced programming.

"It would be relatively simple," says Dr. Nelson, "for the staff to turn the station into a record-playing operation, as many FM stations are today. But there would be little training in this and not much of a challenge."

Even those programs which do not rely on recordings, such as "Symphonic Notebook," are developed by the announcer to be educational as well as entertaining, with appropriate script to explain the music and give historical facts about the composer.

Such shows as *Background*, *Forum of the Air*, *Greek Quiz*, *Rho Tau Sigma Presents*, *This is the Subject*, and *Meet the Varsity* are non-musical productions.

Faculty members regularly present programs also. Dr. Philip A. Shelley, head of the department of German, is featured in a program titled "Music of the People," with comments on the music. Dr. William A. Henninger, professor of music, conducts the program "Mind the Music," and members of the staff of the department of Romance languages present "Music of the Nations" weekly and also a program in

(Continued on page two)

Dr. Harold E. Nelson, standing at right, discusses WDFM programming with student manager Wilbur G. Lewellen, while James Brown operates the console of Radio Station WDFM.



Library To Receive Foreign Materials

The Pattee Library has been designated by the federal government as an official depository for translations of Russian and other foreign scientific and technical publications.

The first of the abstracts have already arrived from the Office of Technical Services, U. S. Department of Commerce, which has established a Foreign Technical Information Center to collect, catalog, and publish abstracts and complete translations of these foreign publications.

The Information Center was established last year following hearings in the United States Senate in which it was pointed out that translations of foreign publications are not readily available to personnel in this country and that there is need for co-ordination in bringing together these materials and making them available.

Initial services of the Center include the publications of abstracts of all articles appearing in 141 Soviet technical journals; translations of important sections of "Referativnyy Zhurnal," the Russians' own abstract journal; and a semi-monthly review of various areas of Soviet science compiled by the Central Intelligence Agency.

Much of the material collected will be from government sources. The volumes of these sources alone is estimated at 50,000 abstracts and 10,000 complete translations a year.

Ralph W. McComb, University librarian, explains that these materials will be available not only to University personnel interested in the scientific publications of other countries, but also to personnel with industry and others who may be interested throughout the State.

Library Hours Given

The Pattee Library will observe the following hours during Easter Recess:

Wed., Mar. 25 — 7:50 a.m.-5 p.m.

Thurs., Fri., Mar. 26, 27 —
9 a.m.-5 p.m.

Sat., Mar. 28 — 9 a.m.-12 noon.

Mon., Tues., Mar. 30, 31 —
9 a.m.-5 p.m.

Wed., Apr. 1 — 9 a.m.-10 p.m.

Site Work To Begin At New Beaver Field

Initial work in the construction of the new football stadium will begin soon, with preparation of the site slated to start immediately and possibly the construction of additions to enlarge the stadium to follow soon.

Dismantling the present stadium prior to moving it will not begin until after the final home game with Holy Cross on Nov. 14.

Wilson-Benner, Inc., of Bellefonte, will be the contractor for site work, and the Pittsburgh-Des Moines Steel Co. for the dismantling, moving, and reconstruction of the existing stands.

Radio —

(Continued from page one)

the French and Spanish languages. Various other faculty members have been guests on the program "Campus and Religion."

With this able assistance from the faculty, WDFM maintains a remarkably good balance in its programming but not without going to considerable trouble. Special events are presented live or via tape whenever the staff feels it would be in the best interests of the audience. Each year it seeks to develop new types of programs and new ways of presenting the established shows.

The fact that there is a turnover of personnel each year creates problems but in-service training serves to keep an experienced staff always available. Students represent nearly every area of the University. They're all volunteers and unpaid but they have a loyalty to the station which makes up for the lack of material reward for the long hours they put in.

"They would be willing to work round the clock if we allowed them to," says Dr. Nelson.

WDFM owes its existence to gifts from the classes of 1951 and 1952 and from the William F. Gable Co. which provided the FM transmitting equipment when it ceased broadcasting. Each year the broadcasting hours have been increased, the staff enlarged, and the programming has become more varied. Since it is a student station, the staff thinks primarily in terms of the student audience. However, the programming shows that classical music outweighs popular and jazz music and sports constitutes only 35 minutes per week of the broadcast schedule.

The staff is proud of its record library, which lists 1500 albums of classical music and a total of 6,000 recordings in all. It's also proud of its new quarters, to which visitors are welcome. Open houses have been held in recent weeks to acquaint faculty members with the facilities.

Telecast To Feature Hallock, Ruth Smith

Dr. Ruth Smith, in charge of housing research in the department of home management, housing, and home art, will team with Phillip F. Hallock, professor of architecture, on the television program "Penn State: Its Men and Ideas," next week.

Subject of their discussion will be changes in living space in the American home. Dr. Grace M. Henderson, dean of the College of Home Economics, will serve as host.

The program will be seen over WFBG-TV, Altoona, at 9:50 a.m. on Monday, Mar. 23, and Wednesday, Mar. 25. On Friday, Mar. 27, the program will begin at 9:30 a.m. and last for one half hour.

On Wednesday, April 1, M. Jerome Weiss will conduct a special half-hour special session on the use of dramatic episode in family guidance.

Band Concert Tomorrow Concludes Festival

The concert concluding the 12th annual Pennsylvania Intercollegiate Band Festival currently in progress will be given at 8 p.m. in Schwab Auditorium tomorrow night, with Lt. Col. William F. Santelmann, U.S. Marine Band leader from 1940 to 1955, as conductor.

The Festival has brought together 140 college students from 34 institutions in the State.

Tickets for the concert will be on sale at 1 p.m. at the HUB desk and also at 216, Carnegie, tomorrow.

Mateer Playhouse Schedule Announced

Tentative schedule of plays during the summer season at Mateer Playhouse at Standing Stone calls for Eugene O'Neill's "Desire under the Elms," to open the season on June 22.

Eight plays in all will be presented, with two plays listed for two weeks each. The complete schedule follows:

June 22, Desire under the Elms; June 29, Three Men on a Horse, by John Cecil Holm and George Abbott; July 6, House by the Lake, by Hugh Mills; July 20 and 27, Cat on a Hot Tin Roof, by Tennessee Williams.

Aug. 3 and 10, The Diary of Anne Frank, by Frances Goodrich and Albert Hackett; Aug. 17, The Cherry Orchard, by Anton Chekov; and Aug. 24, Nude with Violin, by Noel Coward.

Pan American Day To Be Observed

Pan American Day will be observed April 14 with a program sponsored by the Committee on International Understanding in cooperation with the State College Rotary Club.

A tree-planting ceremony will be one of the highlights of the program, which will also include a banquet.

Henry W. Balgooyen, executive vice president and secretary of the American and Foreign Power Co., Inc., of New York, will be the speaker at the banquet.

The tree, a sweet gum indigenous to many of the American republics, will be planted on the south terrace of the Hetzel Union Building in soil gathered from all of the American republics through the international organization of Rotary.

Col. Kogstad To Attend National War College

Col. Arthur W. Kogstad, professor of military science and tactics, has been selected to attend the 1959-60 course at the National War College in Washington, D.C.

He will leave Penn State in June, after three years as head of Army R.O.-T.C. here.

Assignment to the National War College is considered a high honor. Classes average only 130 men, including officers from all services.

Dr. Marias To Give Philosophy Lecture

Dr. Julian Marias, writer and lecturer and co-founder of the Institute of Humanities in Madrid, Spain, will present the next Distinguished Lecture in Philosophy on Friday, April 3, at 8 p.m. in Room 121, Sparks Building.

He will speak on "The Role of Myth in Human Life."

A graduate of the University of Madrid, where he has also served on the philosophy staff, Dr. Marias lectured widely in France, Germany, and Latin America. He has been visiting professor of philosophy at Harvard, Yale, California, and the University of Puerto Rico. He is presently doing research on the philosophy of Ortega y Gasset under the auspices of the Rockefeller Foundation and the University of Puerto Rico.

Dr. Marias will also speak to the staff of the philosophy department and others interested on Thursday, Apr. 2 at 4:15 p.m. in Room 203, Willard Building. His topic will be "On Truth."

Refer To President Inquiries On Centers

Bona-fide inquiries, oral or written, concerning the possible establishment of a new University center or campus should be referred directly to President Eric A. Walker.

Centers cannot be established in every community in the Commonwealth, it was explained, so that misunderstanding can be avoided by directing inquiries directly to the President who will refer them to the proper person for consideration or reply.

It is thought that the number of requests for establishment of new centers or campuses will increase since the announcement of the approval by the Board of Trustees of the new System of Commonwealth Campuses. The new procedure has been adopted to insure the best possible handling of these inquiries.

Science Fair May 1, 2

The sixth annual Pennsylvania State Science Fair, open to all junior and senior high school students in public, private, or parochial schools, will be held on campus on May 1 and 2. Byron E. Myers, graduate assistant in physics, is coordinator of the program, which will feature student projects in biological sciences, earth sciences, engineering, or mathematics.

63 Freshmen Win Award

A total of 63 freshman students, constituting four per cent of the freshmen enrolled in the technical and scientific mathematics courses, will be awarded the Freshman Honors Prize at a special program on Mar. 12 sponsored by Pi Mu Epsilon, mathematics honor society. Each of the winners will be awarded a copy of the book, "Men of Mathematics," by Eric T. Bell.

110 Students Earn Perfect Semester Average

Of the 732 students who qualified for the Dean's List during the Fall Semester, 110 completed the semester with a perfect average of 4.00. An average of 3.50 is required for the Dean's List.

Following are the students who attained the perfect 4.00 average:

College of Agriculture

Carroll A. Curtis, David D. Duppstadt, Harold M. Hartley, Boyd A. Hutchison, Charles A. Itle, John E. Puhall, Eric H. Sundback.

College of Business Administration

Edward J. Ceol, Donald Chuprun, Donald L. McCreary, William B. McNeil, Mansuato Pierucci, William J. Widdis.

College of Chemistry and Physics

Dorothy Baker, Leonard F. Butkiewicz, Carl J. Formoso, David P. Goldstein, Patricia M. Hagan, John L. Kardos, Mary D. Lehman.

Thomas J. Maxwell, Franklin J. Miller, Lorraine Prokopowicz, Sandra M. Rimm, Charles E. Steerman, Albert W. Stetz, Ruth M. Thompson, William H. Thompson.

Counseling

Frederic D. Tappert.

College of Education

Ruth E. Angelotti, Dorothy G. Becker, Joyce D. Bedrava, Barbara K. Cain, Sara H. Clemson, Heather A. Davidheiser, Lois R. DiJoseph, Darla A. Duross, Alan C. Elms, Catherine L. Engel.

Bonnie J. Evans, Sally M. Gardner, Mary Ann Gemmill, Nancy A. Greninger, Sandra Grotzky, Nancy J. Hadfield, Lester S. Hamel, Phyllis M. Heil, Nancy J. Hoppes.

Irene E. Horvath, Kathryn S. Kersh, Joanne K. Logiudice, Jane E. McClain, Charles R. Meck, Joan S. Miller, Audra M. Newcomer, Margaret A. Orchard, Caralinda Paynter.

Lois M. Phillips, Charlotte G. Prudhon, Margaret A. Rogers, Melanie Schlapak, Barbara A. Simon, Yvonne L. Smith, John V. Wall, Patricia L. Whitehouse, Suzanne S. Wytenbach, Carole P. Young.

College of Engineering and Architecture

David Brewer, David L. Daugherty, Edgar L. Fogle, Murray W. Garbrick, Robert K. House, Kenneth P. Kretsch, John J. Marley, James T. Moyer.

Anthony J. Perneski, James D. Porter, Robert A. Powlus, Walter W. Thrush, Karl D. Tremba, Larry L. Tschopp, Robert M. Vijuk, Lamar E. Wagner, Frank Warner, Frederick Young.

College of Home Economics

Joyce M. Bergdoll, Anne M. Ruthrauff, Ann M. Vosburg, Dorothy E. Yeager.

College of The Liberal Arts

Constance Adler, Ronald C. Althouse, Robert Bellas, Barbara Jo Benner, Patricia A. Berg, Sue E. Block, Nancy D. Bradney, John E. Burnosky.

Ellen R. Donovan, Patricia J. Dyer, Elizabeth L. Floegel, Marianne M. Mares, Myrna F. Meacham, Eve L. Neu-

Items of Interest

• Books

R. T. Phalan, business law, "Business Law under the Uniform Commercial Code," published by Prentice-Hall.

• Articles and Papers

R. K. Murray, American history, article "General Sherman, The Negro, and Slavery: The Story of an Unreconstructed Rebel," in *The Negro History Bulletin*, March issue.

J. H. Moore, civil engineering, co-author, article on "Pre-Stressed Pavement—a World View of its Status," in *Journal of the American Concrete Institute*, February issue.

Helen I. Snyder, psychology, a paper titled, "Systematic Distortion in Perceiving the Behavior of Others: A Rationale and Related Studies," at biennial meeting, Society for Research in Child Development, this week.

Joseph Jordan, chemistry, paper on "Elucidation of Electrode Kinetics by Hydrodynamic Voltammetry," before the Electroanalysis Symposium, Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, recently.

• Elected or Appointed

M. R. Fenske, Petroleum Refining Laboratory, and G. F. Wislicenus, Garfield Thomas Water Tunnel, to the Research Advisory Committee on Mechanical Power Plant Systems of the NASA.

W. H. Gotolski, civil engineering, to three-year term as director, Educational Division, American Road Builders Association.

G. F. Deasy, geography, national treasurer, Association of American Geographers.

R. L. Baker, agricultural marketing, to the Poultry Survey Committee, American Feed Manufacturers Association.

Dr. E. H. Frear, agricultural biochemistry, Northeast Regional Project 36, "Pesticide Residues."

G. R. Hudson, counseling in education, as 1959 chairman of the North Atlantic Region of the National Association of Guidance Supervisors and Counselor Trainers.

K. W. Hylbert, counseling in education, as 1960 program chairman for the Division of Rehabilitation Counseling of the American Personnel and Guidance Association.

• Lectures

A. M. Wellington, counseling in education, at the annual meeting in Cleveland of the American College Personnel Association, on "Professional Preparation of College Personnel Workers."

berger, Lee J. Olivier, Brad Karan, Sue M. Smithson, George M. Walker.

College of Mineral Industries

Jerry A. Smith.

College of Physical Education

Larry A. Werner.

Calendar

Friday, Mar. 20

Players production of "Theatre Omnibus," 8 p.m., Center Stage.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. W. D. Kingary, associate professor of ceramics, Massachusetts Institute of Technology, on "Sintering in the Presence of a Reactive Liquid."

Lecture by Dr. Henry Margenau, 12 noon, Room 119, Osmond Lab, on "Recent Interpretations of Quantum Mechanics."

Fluid Mechanics Seminar, 4:15 p.m., 105 Mechanical Engineering Bldg., Dr. T. C. Benton, professor of mathematics, on "Some Three Dimensional Potential Flow Problems with Cylindrical Boundaries."

Saturday, Mar. 21

Concert of Pennsylvania Intercollegiate Band Festival, 8 p.m., Schwab Auditorium, Lt. Col. W. F. Santelmann, conducting.

Cosmopolitan Club Spring party, Lutheran Student Center, 8 p.m.

Players production of "Theatre Omnibus," 8 p.m., Center Stage.

Sunday, Mar. 22

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Mr. Richard Dulin, Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Easter Choral Service.

Monday, Mar. 23

Vesper Service, 4:15 p.m., Helen Eakin Eisenhower Chapel. Program of Lenten-Easter music.

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Howard S. Hoffman, assistant professor of psychology, on "The Mechanization of Learning."

Mineral Economics Seminar, 4:10 p.m., Room 121, Mineral Industries. Film on "Processing of Taconite."

Engineering Mechanics Seminar, 4:15 p.m., Room 203, Engineering "A", Dr. E. R. Fitzgerald, associate professor of physics, on "Atomic Structures and Mechanical Properties of Solids."

American Statistical Association meeting, 5 p.m., Room 201 Willard Building. Dr. S. F. Mack, on "Combinatorial Analysis."

Economics Faculty Seminar, dining room "B", Hetzel Union Building. Werner Hirsch, on "Metropolitan Area and Regional Research."

Linear Programming Seminar, 11 a.m., Room 101, Hunt Building. Peter Wegner, on "Non-Linear Programming."

Tuesday, Mar. 24

Physics Colloquium, 4:15 p.m., Room 117, Osmond Lab. Dr. Kenneth L. Zankel, department of physics, Michigan State University, on "The Diffraction of Light by Distorted Ultrasonic Waves Progressing with Finite but Moderate Amplitudes."

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. Dr. Edwin Nourse, visiting distinguished professor of economics, on "Interpreting and Implementing the Employment Act of 1946."

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Joseph Grumer, U.S. Bureau of Mines, on "Flame Research at the Bureau of Mines."

Wednesday, Mar. 25

Spring recess begins, 11:50 a.m., ends 1:15 p.m., April 1.

Thursday, Mar. 26

American Chemical Society meeting, 8 p.m., Boucke Building. Lewis F. Hatch, University of Texas, on "The Oxo Process."

Monday, Mar. 30

Linear Programming Seminar, 11 a.m., Room 101, Hunt Building. Peter Wegner on "Non-Linear Programming."

Thursday, April 2

Vesper Service, 4:15 p.m., Helen Eakin Eisenhower Chapel, with Lenten-Easter music. Senate meeting, 4:15 p.m., Room 121, Sparks Building.

Graduate School Lecture by Gerald P. Kuiper, astronomer, University of Chicago, 8 p.m., on "The Surface Features of the Moon."

Friday, April 3

Distinguished Lecture Series in Philosophy, 8 p.m., Room 121, Sparks. Dr. Julian Marias on "The Role of Myth in Human Life."

Enrollment In German Ranks 12th Nationally

Penn State's enrollment in courses in the German language ranks 12th among 613 colleges and universities offering the language in the United States.

Initial enrollment for the fall semester, which was used as a basis of comparison in the annual compilation made by Appleton-Century-Crofts publishers, is 833, including students at the main campus and at the other campuses and centers. This is an increase of 243, or 41 per cent, over that of the previous year. On the University Park campus the increase was from 512 to 682, or 33 per cent, compared to a national average increase of only 15 per cent.

Crossley Cited

Gilbert L. Crossley, assistant professor of electrical engineering and director of radio station A3YA, has been cited by the Second U.S. Army at Ft. Meade, Maryland.

A certificate issued by Col. Riley A. Graham, Army Signal officer, cites Crossley for outstanding contributions to the Second Army Military Affiliate Radio System (MARS) during 1958 while serving as assistant State MARS director.

118-Acre Tract Acquired

A 118-acre tract of land south of the new meats laboratory and east of the University incinerator has been purchased. The land was purchased from John W. and O. Hamil Bathgate to "take care of the University's continued expansion to the east."

Dr. Nourse Featured In Home Ec Program

The theme for the annual two-day Home Economics Spring Week-End Conference on April 17 and 18 will be "Consumer Problems of Families."

Special programs have been arranged for adult consumers, professional people, and high school students.

Dr. Edwin G. Nourse, distinguished visiting professor of economics, will present the main address at 4 p.m., Friday, April 17, in Schwab Auditorium, on "Responsibility for Administering the Family Income."

Milstein Next On Artists Series

Nathan Milstein, described as "the master violinist" by the New York Times, will present the next program in the Artists Series on Tuesday, April 7, at 8:30 p.m. in Schwab Auditorium.

Ticket distribution for this concert will begin on Thursday, April 2, for the students, and for non-students on Friday, April 3, at the Hetzel Union Building desk.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

April 5—The University chaplain, Dr. Luther H. Harshbarger.

April 12—Dr. James McLeod, dean of students, Northwestern University.

April 19—Dr. Joseph Haroutunian, professor of theology, McCormick Theological Seminar, Chicago.

CONCERTS

April 5—Organ recital by George Ceiga, University organist.

April 7—Artists Series program by Nathan Milstein.

DRAMATICS

April 10—Players production of new play, "Iphigenia at Aulis" by Russell Graves. Continues weekends until May 16.

May 7-9—Players production of "The Boy Friend," by Sandy Wilson, Schwab Auditorium.

LECTURES

Apr. 13-17—Priestly Lectures by Dr. Thomas K. Sherwood, M.I.T.

Senate Meets Apr. 2

The University Senate will meet at 4:15 p.m. in Room 121, Sparks Building, on Thursday, April 2.

Graduate Exams Listed

The next Graduate Record Examination will be held at Penn State on Saturday, April 29, at 8:45 a.m. and 1:45 p.m. Informational bulletins and applications blanks are available in Room 117, Buckhout Lab. Applications must be received at Educational Testing Service, 20 Nassau St., Princeton, N.J., not later than April 10.

Films To Be Previewed

Films listed below have been requested from producers. Please call Extension 2051 and give code number of those you would like to see; you will be notified when they arrive so that you can arrange a preview showing in Room 9, Library.

- M-1 Navajo — A People Between Two Worlds
- M-2 Getting Acquainted with Engineering
- M-3 Wales
- M-4 Tucson Countryside
- M-5 The Rhine
- M-6 Northern Ireland
- M-7 Window on Canada: An Interview with Norman McLaren
- M-8 The Hunters
- M-9 One Day's Poison (hazards in the home)
- M-10 Charles Dickens: Characters in Action
- M-11 A Family of Amsterdam
- M-12 Hawthorne and New England
- M-13 Islands of the South Pacific
- M-14 Laws of Conservation of Energy and Matter
- M-15 Policeman Walt Learns His Job
- M-16 Missing Witness (driving safety)
- M-17 Your Share in Tomorrow (New York Stock Exchange)
- M-18 Girl's, Let's Learn Softball
- M-19 Gambling U. S. A.

AYI Program To Repeat

The third Academic Year Institute for High School Teachers of Science and Mathematics will be conducted at the University during the 1959-60 academic year. The program is sponsored by the National Science Foundation which has provided a \$276,300 grant for the program.

Fifty high school science and mathematics teachers will study on campus.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Latin American Countries Need More "Common Man" Aid—Gray

THE significance of planting a tree may seem small in matters of diplomacy and friendly international relations. Along side an "international incident" such as the demonstration outside the U.S. Embassy in Bolivia recently, trees don't loom very large.

But the fact is, says Dr. William H. Gray, that the tree will be remembered much longer and have more important effects than the demonstration had.

The tree planting will take place at 5:15 p.m. on April 14, Pan American Day, at the south terrace of the Hetzel Union Building. A sweet gum tree, indigenous to many American countries, will be planted in soil which is a composite of soils sent by Rotary Clubs from each of the 20 Latin American republics.

"The significance in the tree planting," says Dr. Gray, "lies in the fact that people here will take time out from their busy schedules to observe Pan American Day in this manner. It would be much simpler, but not as meaningful, to put up the flags of each country, as we have done for the past 17 years, and keep on with our normal activities."

This "man-on-the-street" approach to Inter-American relations is greatly needed, Dr. Gray believes, to supplement government-level diplomacy. It is to the mutual benefit of all the American countries to develop more contact and understanding between the "common" men.

Two phases of our government's aid programs among Latin American countries need changed, according to Dr. Gray, if we expect to get the most out of our aid.

"I believe first," he says, "that our assistance programs to Latin American countries need to be more realistic on the level of the average man.

"I agree that the book *The Ugly American* greatly exaggerated matters

but I do believe that we need to think more seriously of how we can aid the great masses of people with their individual economic problems. We need, for example, to help the farmer get bigger eggs or more grain, but in ways that are practical for him.

"The second point is that we should develop our aid not on a year-to-year basis as we now do but plan for decades to come. The problems in Latin America are not capable of quick solution. If those countries could understand that our assistance is planned for generations to come, it would help their own planning."

Dr. Gray's interest in Latin America is of long-standing origin. He has studied and written about the area and traveled many times in the American republics. He has further contact, in his position as director of International Student Affairs, with students from those countries. As professor of Latin American history, he is responsible for instruction in that area.

"We may sometimes forget," he says, "that there are small areas in Latin America as poor as any in the world. Our obligation to help people there is as great as it is to help in other sections of the world.

"Do the people want our help? Not only do they want it but they expect it. After World War II we built up our former enemies without giving a proportionate share of aid to Latin America and yet we have asked those peoples to retain a certain loyalty to the hemisphere to resist outside pressures.

"It is true that some of the rural Indians are perfectly happy as they are, having seen nothing to make them want to change. However, when a man is forced to walk his weary way along a dusty road and sees another man ride in comfort, he too will want a car. The discontent now showing up in the cities will spread to the country."



DR. WILLIAM H. GRAY
Planting Tree Has Significance

One of Latin America's greatest needs is for a "middle class," or to be more exact the trained professional man and technician. But with an illiteracy rate ranging from 90 per cent in Haiti to less than 10 per cent in Argentina, progress is spotty, even if encouraging.

Continued recognition of Latin America's needs is necessary, for purely selfish as well as humanitarian reasons, although Europe, Africa, and Asia may for the moment seem more important. Some countries, like Cuba and Bolivia as we know, are figuratively seething with ambition and are ripe for violent action. If the right local leader comes along, many people will turn to him as a saviour. Unhappily, he cannot solve the problems any faster than the old leader could.

The demonstration against Vice President and Mrs. Nixon recently and also the furor caused in Bolivia by the magazine article are to be deplored, of course, but are in some respects helpful symbols. They indicate that all is not well with our relations south of the border and recognition of this discontent is the first step toward improvement.

(Continued on page two)

Personnel Actions Include Resignations, Leaves

The following personnel actions have been announced recently:

Leaves of absence were extended for Dr. Robert E. Swope, assistant professor of veterinary science; Dr. Elizabeth C. Hillier, associate professor of home economics education; and Dr. Ernest H. Freund, professor of philosophy, all until June 30, 1960.

Dr. Alex J. Slivinske, associate professor of psychology, has been granted a leave of absence which began with the opening of the spring semester and continues until Sept. 1 to serve as consultant in human engineering with Haller, Raymond, and Brown, Inc.

Resignations announced include those of Edward Abramson, associate professor of sociology, effective June 30, to accept a position as professor of sociology at Saskatoon, Saskatchewan; Dr. Benjamin L. Snavey, who has been serving as acting director of the Ordnance Research Laboratory, April 1, to return to his position as physicist with the U.S. Naval Ordnance Laboratory at Silver Spring, Md.

Other resignations are those of Dr. Thomas A. Kaplan, Dr. Sadao Hoshino, and Dr. Sakutaro Hirokawa, all research associates in physics.

Mrs. Keeler Named Woman Of The Year

Mary Frear Keeler, class of '24 and now dean of the faculty and professor of history at Hood College, Frederick, Md., has been named Penn State's Woman of the Year for 1959. She will receive the medal accompanying the honor at the Alumni Institute program on June 13.

The daughter of Dr. William Frear, professor of agricultural chemistry and vice director of the Agricultural Experiment Station at his death in 1922, Mrs. Keeler was reared in State College and served the University in various capacities between her graduation and her marriage in 1938 to John B. Keeler.

Mrs. Keeler returned to teaching after her husband's death in 1950, first at Vassar, then Wellesley, and finally at Hood. She had earlier obtained her master's and doctor of philosophy degrees from Yale University.

Walker Prepares Chapter

President Eric A. Walker is author of a chapter titled "Conserving Creative Talent" in a new book, "The Scientific Revolution," published by the Public Affairs Press, Washington, D.C., and edited by Gerald W. Elbers and Paul Duncan.

Nye To Trinity

Edwin P. Nye, associate professor of mechanical engineering, has been named professor of engineering at Trinity College, Hartford, Connecticut, effective in September. He has been at Penn State for the past 12 years.

Items of Interest

• Speeches and Lectures

P. S. Skell, chemistry, before National Research Council, Ottawa, Canada, on "Bivalent Carbon."

G. R. Rindone, ceramic technology, before joint meeting, Pennsylvania Ceramics Association, Inc., and the Philadelphia section, American Ceramic Society, on "Ceramic Education at Penn State."

R. H. Wherry, commerce, at annual guest night meeting, McKeesport College Club, on "Estate Planning."

H. P. Zelko, speech, at eastern regional conference, Federal Office of Vocational Rehabilitation, on "Problems of Communication."

Frances M. Andrews, music education, at Music Educators National Conference, Southern Division Meeting, on "The Role of Classroom Teachers in Elementary School Music" and "Design and Action in the Junior High School Music Curriculum."

• Books

C. C. DiIlio and E. P. Nye, mechanical engineering, a textbook, "Thermal Engineering" published by International Textbook Company, Scranton, Pa.

• Elected or Appointed

Hans Neuberger, meteorology, associate editor, Journal of Meteorology and the American Meteorological Society Bulletin.

A. M. Wellington, counseling in education as 1960 national program chairman for student personnel in American Teacher Education Association.

G. R. Hudson, counseling in education, as 1960 program chairman for the national convention of the National Association of Guidance Supervisors and Counselor Trainers.

K. W. Hylbert, counseling in education, editor of the national Division of Rehabilitation Bulletin.

W. G. Mather, sociology, president of the Pennsylvania Health Council.

• Articles and Papers

E. W. Mueller, physics, a paper titled "Field Ion Microscopy of Non-Refractory Metals," at the 19th annual Massachusetts Institute of Technology Physical Electronics Conference.

E. W. Miller, G. F. Deasy, Phyllis R. Griess, D. A. Smith, and P. F. Lewis, geography, all presented papers at the 55th annual meeting of the Association of American Geographers, this week.

R. N. De Vinney, Wilkes-Barre, Campus, an article, "Yanks Go Home" in "Today's Speech," April issue.

Alberta E. Siegel, child development and family relationships, co-author with Lynette G. Kohn, of article "Permissiveness, Permissions, and Aggression: The Effect of Adult Presence or Absence on Aggression in Children's Play," in *Child Development*.

Latin —

(Continued from page one)

"We should not over-emphasize the importance of these demonstrations, however," says Dr. Gray. "The number of people involved is small and they are largely city people."

Great strides have been made since World War II in the direction of better Inter-American relations, Dr. Gray feels. In 1945 he was quoted as saying that "American hemispherical unity will be secured only when the United States accepts the South American nations as equals."

"We haven't solved that problem completely, of course," he says now, "but a good step forward was taken in 1948 when the old Pan American Union was reorganized as the Organization of American States."

"For the first time ambassadors could feel, in this organization, that they were on the same level as our ambassador to the organization. Mutual assistance of many types has resulted from OAS and economic, social, and cultural problems have been attacked cooperatively."

Even with the formal assistance of the United States and a formal organization to attack their problems, Latin American countries lack one important ingredient — the missionary spirit, from within and without.

"I am thinking not so much of the religious phase of missionary work," Dr. Gray says, "but that the spirit of sacrifice is needed."

"A young lady who was a student here until recently, returned to her country to teach. She was assigned to go to a completely modern school in the backwoods to help develop an educational program. The opportunity to help her country was unlimited. But her chief ambition was to live in the capital city; she wanted no part of the primitive life of the backwoods."

Latin American governments have been, over the years, friendly with the United States, but in a number of cases they have represented only a small segment of the population. The great mass of people in several countries is indifferent to the United States, just as many people here are indifferent to Latin American countries. What is needed, Dr. Gray says, is more contact between peoples.

"Tree plantings may not accomplish this to a high degree, we realize. We hope that, in the future, people coming from Latin American countries will look to our tree as sort of a shrine of friendship."

"At least they will know that our State College community thinks enough of their country to take time to recognize it."

"In turn, we may realize from the fact that each of these 20 republics sent a symbolic sample of soil that those countries are making a contribution to our welfare and culture."

"Mutual assistance is not a one-way street."

Penn State Charter Member In Atmosphere Research

Penn State has been elected charter member of the University Corporation for Atmospheric Research and President Eric A. Walker has named Dr. M. A. Farrell, vice president for research, and Dr. Hans H. Neuberger, head of the meteorology department, to represent the University at the first meeting of the corporation's board of trustees at Tucson, Ariz., yesterday and today.

Main objective of the corporation is the establishment of a national center to specialize in research in the earth's weather.

Other institutions associated in the corporation are: Johns Hopkins, Wisconsin, Chicago, Michigan, New York, Florida State, Washington, Arizona, Texas A. and M., U.C.L.A., Cornell, St. Louis, and Massachusetts Institute of Technology.

Corrected Grade Increase

The number of grades corrected for students enrolled on main campus and at other campuses and centers has nearly doubled in the past four years, Dr. Robert G. Bernreuter, dean of admissions and registrar, reports.

For the fall semester a total of 276 grades were corrected out of nearly 94,000. In 1954, the number corrected was 141, out of 74,000.

Corrected grades mean delays in preparation of grade reports and rankings of students, Dr. Bernreuter points out, until several weeks after the semester has ended.

Greek Week Starts Sunday

Greek Week, developed to promote a better understanding of fraternities and sororities, will begin Sunday, April 5. The program seeks to achieve better inter-relations among the groups, and among the groups and faculty members and non-fraternity students.

One of the highlights of the Week is community work projects. Greek Sunday places emphasis on religious and moral values.

Activities will conclude on Tuesday, April 14.

Mook Named To Commission

Dr. Maurice A. Mook, professor of anthropology, has been appointed by Gov. David L. Lawrence to serve until January, 1963, as a member of the State Historical and Museum Commission. Dr. S. K. Stevens, member of the faculty of the department of history from 1926 to 1937, is executive director of the Commission.

Perkins Named Head Of Wyomissing Center

Dr. Harold W. Perkins, associate dean of men, has been named administrative head of the Wyomissing Center, succeeding T. Glennwood Stoudt, who has resigned to enter the engineering department of Western Electric Co. The appointment is effective July 1.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

April 12—Dr. James McLeod, dean of students, Northwestern University.

April 19—Dr. Joseph Haroutunian, professor of theology, McCormick Theological Seminary, Chicago.

April 26—Dr. Krister Stendahl, Harvard Divinity School.

CONCERTS

April 28—Artists Series program by Michael Tree, violinist.

DRAMATICS

April 17—Players production of new play, "Iphigenia at Aulis" by Russell Graves. Continues weekends until May 16.

April 18—Artists Series program by Emlyn Williams in readings of the works of Dylan Thomas.

May 7-9—Players production of "The Boy Friend," by Sandy Wilson, Schwab Auditorium.

LECTURES

Apr. 13-17—Priestly Lectures by Dr. Thomas K. Sherwood, M.I.T.

April 22—Dr. Linus Pauling, California Institute of Technology, for American Chemical Society.

St. Francis Joins Co-op Program In Engineering

St. Francis College at Loretto has joined the list of colleges cooperating with the University in the 3-2 program in engineering. Under the program, students enter Penn State's engineering work with junior standing after completing a three-year pre-engineering program at the cooperating college. Two degrees are granted the candidate at the completion of the engineering program.

Other colleges already cooperating in the program are Albright, Elizabethtown, Gettysburg, Lycoming, Westminster, and St. Vincent.

Will's Poems Published By University Press

A collection of poems by Dr. Fred-eric Will, assistant professor of classical languages, this week was published as the fifth production of The Pennsylvania State University Press.

Titled "Mosaic and Other Poems," the book is a collection of "romantic poetry adapted to the emotional climate of the 20th century, poetry that avoids any sentiment which might hide its object, at the same time remaining faithful to the emotional reality of life."

The author of "Intelligible Beauty in Aesthetic Thought" and of numerous articles and poems, Dr. Will is currently writing a book concerning modern Greece.

Korea Honors Oliver

Dr. Robert T. Oliver, head of the department of speech, has been cited by President Syngman Rhee of South Korea and awarded the Presidential Medal for his "great assistance in the expansion of Western understanding of Korea and its problems." Dr. Oliver began his association with Korean problems in 1942 and has served as advisor of Rhee for many years.

Ceiga Concert Sunday Features French Music

A program of romantic and contemporary organ music of the French School will be presented by George E. Ceiga, University organist, on Sunday, April 5 at 4 p.m. in Schwab Auditorium.

The program will include "Trumpet Tune and Peal" by Henry Purcell; de profundis from "Neuf Pieces pour Grand Orgue" and dialogue sur les mixtures from "Suite Breves" both by Jean Langlais; and "Second Symphonie" by Louis Vierne.

Consultant Named For Computer Facilities

Dr. Charles F. Wrigley, associate professor of psychology, is serving currently as distinguished visiting consultant in statistics and data processing. He is affiliated with the Division of Academic Research and Services.

Dr. Wrigley's appointment was made to stimulate thought about and interest in computers and to help educate faculty and other personnel in computer applications and encourage the use of computer facilities.

Arrangements for conferences and appointments with him may be made through Dr. William S. Ray, associate professor of psychology and a member of the staff of the Division.

Veterans Make Good Use Of Educational Chances

Veterans make better use of their educational opportunities than non-veterans, Dr. Robert G. Bernreuter, dean of admissions and registrar and special assistant for student affairs, told the Sub-committee on Veterans Affairs of the Committee on Labor and Public Welfare of the United States Senate, recently.

Testifying relative to Senate Bill 1138 on educational benefits for veterans, Dr. Bernreuter said that the proportion of non-veterans dismissed for poor scholarship last semester was twice as large as the proportion of veterans.

"Another indication of the extent to which the veterans make better use of their opportunities," he said, "is shown in the percentage of students who quit before graduating."

"Among those who were admitted last year as freshmen, more than one-third of the non-veterans quit. Among the veterans, less than one-fourth did not return."

A study of disciplinary actions taken by the University reveals that in the past year one out of 84 non-veteran male students was involved in such action but only one in about 400 veterans was so involved.

Dr. Bernreuter cited information supplied by Frank J. Simes, dean of men, that of the 36 students who are now residence hall counselors, 32 are veterans, although no special preference was given veterans in the selection of counselors.

Calendar

Friday, April 3

Distinguished Lecture Series in Philosophy, 8 p.m., Room 121, Sparks. Dr. Julian Marias on "The Role of Myth in Human Life."

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. D. S. Montgomery, senior scientist, fuel division, Canadian Department of Mines and Technical Surveys, on "Hydrocarbon Structural Analysis Applied to Asphalt, Pitch, and Coal."

Economics Faculty Seminar, 12 noon, dining room "B", Hetzel Union Building. Dr. J. J. Spengler, Duke University, on "Some Current Research."

Lecture by Hobson Pittman, noted artist, 8 p.m., Mineral Industries Auditorium on contemporary painting.

Fluid Mechanics Seminar, 4:15 p.m., Room 105, Mechanical Engineering. Dr. Howard D. Greyber, Missile and Ordnance Systems Dept., General Electric Co., on "Dynamics of Thermodynamic Plasmas."

Saturday, April 4

Lacrosse, versus Loyola, 2 p.m.

Sunday, April 5

Organ recital by George Ceiga, University organist, 4 p.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Reverend Hal Leiper.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther H. Harshbarger, University chaplain.

Reception for Hobson Pittman, 3-5 p.m., HUB gallery.

Monday, April 6

Lecture by Dr. F. C. Bawden, English scientist, 3:15 p.m., Room 112 Boucke, on "Current and Future Trends in Virus Research," sponsored by the department of botany and plant pathology.

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Luther Harshbarger, University chaplain, on "Religion and the State University."

Graduate Mining Seminar, 3:30 p.m., Room 24, Mineral Industries. T. V. Falkie, on "Drilling Methods and Their Applications."

Vesper Services, 4:15 p.m., Helen Eakin Eisenhower Chapel. Presbyterian order of worship.

Engineering Mechanics Seminar, 4:15 p.m., Room 203, Engineering "A". Dr. E. R. Fitzgerald, on "Atomic Structures and Mechanical Properties of Solids."

Mineral Economics Seminar, 4:10 p.m., Room 121, Mineral Industries. Dr. A. L. Muan, on "Metallurgical Aspects of the Use of Taconites."

Linear Programming Seminar, 11 a.m., Room 101, Hunt Building. Peter Wegner, on "Increasing Returns to Size."

Tuesday, April 7

Economics Faculty Seminar, 12 noon, dining room "B", Hetzel Union Building. Dr. Marvin Frankel, University of Illinois, on "Consumer Goods, Production Goods, and the Rate of Economic Growth."

Artists Series program by Nathan Milstein, violinist, 8:30 p.m., Schwab Auditorium.

Dr. H. K. Schilling, dean of the Graduate School, in final paper in UCA series on "The Responsible University in an Age of Crisis," 8 p.m., Helen Eakin Eisenhower Chapel.

Home Economics Seminar, 12:30 p.m., dining room "A", Hetzel Union Building. Third in series sponsored by Home Economics Coordination of Research Committee with Barbara E. Densmore on "Changes in Crystallinity of Nylon Fibers after Acid Hydrolysis."

Physics Colloquium, 4:15 p.m., Room 117, Osmond Laboratory. Dr. John P. Hagen, chief, Vanguard Division, NASA, on "Radio Astronomy."

Wednesday, April 8

Graduate School Lecture Series, 8 p.m., Room 121, Sparks. Dr. George E. Mylonas, archaeologist, Washington University, on "Mycenae, the Capitol City of Agamemnon." (Co-sponsored by the Society of Sigma Xi.)

Forestry Convocation, 11 a.m., Room 121, Sparks. Dr. Thomas D. Clark, visiting professor of history.

Thursday, April 9

Distinguished Lecture in Philosophy, 8 p.m., Room 121, Sparks Building. Dr. Tadeusz Kotarbinski, president, Polish Academy of Sciences, on "The Fundamental Principles of Ethics."

College of Business Administration faculty meeting, 4:10 p.m., Room 111, Boucke Building.

Religious Ideas Course Begins Wednesday April 8

A limit of 20 has been placed on the enrollment for the non-credit study-discussion course, "Exploring Religious Ideas," which will be given for a ten-week period beginning Wednesday, April 8.

The course, which is being offered by the Center for Continuing Liberal Education, will be conducted by Dr. Luther H. Harshbarger, University chaplain and professor of religion; Dr. John A. Maurant, professor of philosophy; Rabbi Benjamin Kahn, director of B'nai B'rith Hillel Foundation and lecturer on Hebrew; and Dr. Ralph W. Condee, professor of English literature and assistant director of humanities for the Center.

Fees for the course, including books, are \$12 per person or \$18 for married couples. Topics of discussion include the meaning of religion, the existence of God, the nature of God, faith, the nature of revelation, creation, man as a moral being, ethics and grace, institution and symbol, and the end of man.

The course will be given each Wednesday at 8 p.m. in the Helen Eakin Eisenhower Chapel.

Marias, Kotarbinski In Philosophy Lectures

Dr. Julius Marias, writer and lecturer who has served as visiting professor at Harvard, Yale, California, and Puerto Rico, will present the eighth Distinguished Lecture in Philosophy at 8 p.m. tonight in Room 121, Sparks Building.

The title of the lecture is "The Role of Myth in Human Life."

The next lecture in the series will be given on Thursday, April 9, by Dr. Tadeusz Kotarbinski, president of the Polish Academy of Sciences and professor of philosophy at the University of Warsaw.

Dr. Kotarbinski, one of the leading figures in the intellectual life of Poland, will speak on "The Fundamental Principles of Ethics," at 8 p.m., in Room 121, Sparks Building. He will also speak to the staff of the department of philosophy and others interested at 4 p.m. in Room 217, Willard Building, on Apr. 9 on the subject, "The Principles of Concretism."

New Play By Players Starts April 17th At Center Stage

A new play, "Iphigenia at Aulis," by Russell Graves, will be presented by the Penn State Players at Center Stage each weekend from April 17 to May 16. The play is directed by Warren Smith, associate professor of theatre arts.

Part comedy and part tragedy, the play tells of the legend of the beginning of the Trojan War.

Tickets for the play will go on sale at the Hetzel Union Building desk on Monday, April 13. The play is to be presented each Friday and Saturday at 8 p.m. at Center Stage during its run.

Mycenae Subject Of Graduate School Lecture

Dr. George E. Mylonas, chairman of the department of the history of art at Washington (St. Louis) University and noted archaeologist, will present the next lecture in the Graduate School Lecture Series on Wednesday, April 8, at 8 p.m., in Room 121, Sparks.

He will speak on "Mycenae, The Capitol City of Agamemnon."

President of the Archaeological Institute of America, Dr. Mylonas has been decorated by King Paul of Greece for his archaeological discoveries and, among other honors, was granted the honorary degree of doctor of letters by Ohio State University. He has written extensively and is the author of "Ancient Mycenae," published by the Princeton University Press.

The lecture is co-sponsored by the Society of Sigma Xi.

Pittman Lecture Tonight; Exhibition Starts Today

Hobson Pittman, who has for many years taught art at Penn State in summer sessions, will lecture on contemporary painting this evening at 8 p.m. in the Mineral Industries Auditorium, to mark the opening of the exhibit of his paintings. The exhibition will remain at the Hetzel Union Building Gallery until May 5.

On Sunday, April 5, a reception will be held for Mr. Pittman from 3 to 5 p.m. in the HUB gallery for the artist and his friends.

The exhibition includes a representative group of oil paintings borrowed from Milch Gallery and a group of recently executed pastels.

Virus Expert To Lecture Monday, April 6, In Boucke

Dr. F. C. Bawden, prominent English scientist and administrator, will lecture on "Current and Future Trends in Virus Research" on Monday, April 6, at 3:15 p.m. in Room 112, Boucke Building.

The lecture, open to the public, is sponsored by the department of botany and plant pathology.

Internationally recognized for his research on plant viruses, Dr. Bawden is author of "Plant Viruses and Virus Diseases," recognized as one of the finest references in the field of viruses. He is also director of the Rothamsted Agricultural Experiment Station in England.

Schilling To Give Paper In UCA Series

Dr. Harold K. Schilling, dean of the Graduate School, will present the final paper in the current University Christian Association faculty series on "The Responsible University in an Age of Crisis," on Tuesday, April 7, at 8 p.m. in the Helen Eakin Eisenhower Chapel.

He will speak on "An Investigation of the Problem of the Relationship of Faith and Academic Discipline."

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Public School Affairs Are In Hands Of Mr. Taxpayer

John Q. Public, who has in the last few years griped to his next-door neighbor about the public school system, should gripe to himself more often, agrees a panel composed of Drs. Charles M. Long, Walter J. DeLacy, Hugh M. Davison, and David W. Russell, all of the department of education.

Exploring the authority and responsibilities of John Q. in public school matters, the panel is of the opinion that too few taxpayers realize the power they hold in educational matters; more significantly, they don't use their power often enough.

"They don't talk matters over often enough with their teachers, their principal, or their superintendent," says Dr. Long. "Any superintendent worth his salt is eager to get the best thinking of serious-minded school patrons.

"If you feel there are frills in the program at your school, talk the matter over first with the superintendent and then the school board if he doesn't seem interested. They may seem like frills to you but they may be very important parts of the program to someone else. Your superintendent should know how you feel.

"These 'frills' are local additions to the minimum program required by the State, and the public can certainly control the additions."

Citing the minimum requirements of prescribed courses under Sec. 1511 of the Public School Code, Dr. Davison points out that any school district can add to these minimums if it wants to, provided it can find the money to do so.

"In other words," Dr. Davison says, "the public will get what it pays for."

The minimum program of instruction (which receives reimbursement from the State) includes: English, including spelling, reading, and writing; arithmetic; geography; the history of the United States and of Pennsylvania; civ-

ics, including loyalty to the State and National Government; safety education; the humane treatment of birds and animals; health, including physical education and physiology; music; and art. "Other such subjects," says the Code, "shall be taught in the public elementary schools and also in the public high schools as may be designated or approved by the State Council of Education."

In curriculum and course matters, the public customarily turns much of its responsibility over to its Board of School Directors and through the Board to the superintendent or principal. Hiring and firing of teachers, building construction, athletic programs, and, in fact, all policy as well as administrative matters are affairs which fall within the jurisdiction of the Board.

"And because in most districts the Board is elected by the local people," says Russell, "it is accountable to the people. Only the Public School Code and other laws are restraints on School Board members if the public takes no interest in the Board's policies."

"To use a far-fetched example," Dr. DeLacy says, "the Board has the power

to add to the curriculum a course in 'Aborigines in the U. S.' if it thinks such a course is desirable.

"The State Council of Education may or may not approve such a course. If it doesn't, no reimbursement of funds to the school district will be made by the State and the district would have to pay for the teaching of the course.

"If a citizen thought the teaching of this course a waste of money, he would properly make representation to the Board by himself or through an organized group, such as the Parent-Teachers Association.

"Ultimately, he can get satisfaction at election time when School Directors are chosen, if the Board hasn't acted in the meantime."

"In the practical case," says Dr. Davison, "School Directors are usually willing and anxious to hear from the public, although being human they at times may resent untoward interference by some person or group having nothing concrete to contribute."

"The most practical limitation on School Board activities today," says Dr. DeLacy, "is probably lack of funds. Eighty per cent of the school districts in Pennsylvania are underfinanced."

In spite of this lack of funds, the panel agrees, some school districts do have 'frills' and do go beyond their means when they build a new building, contrary to suggestions from the

(Continued on page two)

A panel of members of the College of Education faculty, consisting of Dr. Walter J. DeLacy, Charles M. Long, Hugh M. Davison, and David W. Russell, points up the great power in the hands of the public in public school affairs.



Schools —

(Continued from page one)

State Department of Public Instruction.

"Probably fewer buildings are 'over-built' than the public believes," Dr. DeLacy adds, "but in this area of public school matters the public has a real stake and has a right to inquire into the plans for the new building.

"Generally speaking, the School Board hires a professional architect who is familiar with school building construction and of the State requirements for such construction. There is considerable leeway in what the architect can specify over and above the State minimums. Perhaps some of the additions are necessary for the local situation; perhaps some 'would be nice to have'.

"The public certainly has a right to object to designs the architect prepares. It has an obligation, however, to consider these plans not only for what the building will do in the immediate future but also for many years to come. Substitution of materials simply because the initial cost is lower, isn't good business if in the long run the total costs will be higher."

Fortunately the School Directors and the public are protected in many ways in building construction through certain regulations of various State departments. Even within the framework of these regulations, however, school building costs vary considerably. Information supplied by the Department of Public Instruction shows that for elementary schools in the period 1956-58, costs varied from \$689 to more than \$1100 per pupil (the maximum approved by the State) and for secondary schools from \$1253 to more than \$1700 per pupil.

"In some cases," says Dr. Davison, "these costs will run as high as \$1500 and \$2200 respectively in school districts which have a lot of money for building."

"Of considerable interest to the public," says Dr. Russell, "is the use to which the building will be put, not only in the formal instruction program but in all other programs."

The use of the public schools for a community center is a hotly debated subject at present. Certainly the public has the right to set the principles of use for non-educational purposes, but it probably also has the obligation to see that its facilities are not abused, by setting forth regulations for its use.

"It cannot," says Dr. Davison, "become a landlord, and charge fees for use, except for payment of heat, light, and power, and for custodial services.

"Section 775 of the Code specifically enables School Board Directors to permit the use of its school grounds and buildings for social, recreational, and other proper purposes under such rules and regulations as the board may adopt. But the law does not require the Board to permit such uses."

One common difficulty in proposals to use school buildings for broad pur-

poses is the establishment of the responsibility for damage sometimes resulting from non-educational uses of the building. The panel agrees, however, that proper agreements could be reached to place this responsibility and account for it.

The code requires a suitable playground to be built at each building site, but football stadia and other athletic areas designed for interscholastic contests are strictly the responsibility of the local area.

"Generally, I believe," says Dr. DeLacy, "the athletic programs of most school districts have been self-supporting. What any community wants in the way of athletic contests is its own responsibility and if athletics are over-emphasized, John Q. Public can do as much to change the situation as he is able to convince his neighbors it should be."

John Q.'s relation to his teachers doesn't stop with the Parent-Teachers Association, the panel agrees. (In passing, however, the panel was unanimous in urging more P.T.A. participation by the parents.)

If he wants better teachers he can do something about it, at least through his supervising principal or other administrative officers who customarily do the teacher recruitment.

"The State sets minimum salaries for teachers," says Dr. Davison, "but there is nothing in the Code to prevent the School Directors from paying what it wants to get — better teachers.

"Our teacher placement service (in the College of Education), is swamped each spring with the energetic school directors who are trying to find replacements for their school. They recruit the better potentials just as industry is recruiting scientists. The lackadaisical director who won't move out of his office to find teachers is going to get the poorer graduates, who will probably make the poorer teachers."

Certainly money is one of the stumbling blocks in many school districts in the hiring and keeping of good teachers, although money alone will not in itself raise educational standards. One step the panel discussed was the possibility of making public school teaching a 12-month job.

"There are too many aspects of this idea," says Dr. Russell, "to go into it completely here. There are some advantages and some definite disadvantages. I think the plan should be carefully considered from many angles."

The minimum requirements for teacher education are also set by the State but here again there is no limit on what the School Directors can require — if it is able to hire teachers with more education and experience. In one aspect of this problem, however, the public has a real stake. Many schools, from time to time, are forced by circumstances (usually money) to ask teachers to take over instruction in a field for which they are not adequately prepared. The situation is hard

on the teachers and it certainly short changes the student.

"I feel that the School Directors and parents should be concerned in these situations," says Dr. Russell. "Certainly School Directors should welcome a public interest in instruction. Personally, I believe that if the general public knows the problems and responsibilities of having good schools there will be a great deal less concern about paying school taxes."

In some areas, Dr. Davison points out, superintendents or principals suggest and the School Directors authorize a Lay Advisory Committee, generally of persons with particular skills or knowledges representing some civic groups, to aid the directors or the principal in their work. Methods such as these prove more effective and helpful than the public "uprisings" which occur periodically.

John Q. Public should not, however, depend on such committees to do the job for him. His own personal interest is the only real guarantee the public school system will be what he wants it to be, the panel concludes.

Trustees Announce Personnel Actions

The following actions were approved and announced by the Board of Trustees at its meeting last week-end.

Dr. Cyril F. Hager, director of the Center for Continuing Liberal Education and professor of speech and social science, will also assume the post of assistant dean for extension in the College of the Liberal Arts, effective July 1.

Dr. Floyd L. Carnahan, assistant to the dean of the College of Chemistry and Physics, will become assistant dean, effective July 1.

Dr. Paul M. Althouse, professor of agricultural and biological chemistry, became assistant director of resident instruction in the College of Agriculture, effective April 1.

Dr. Russell C. Miller, professor of agricultural and biological chemistry, has been named professor and head of the department of animal husbandry, effective April 3.

Dr. Charles M. Long, Dr. Franklin A. Miller, and Dr. James H. Moyer have been named heads of the departments of elementary education, educational services, and secondary education respectively, effective July 1.

Food Retailing Program To Be Offered In Fall

A four-year program in food retailing and distribution, leading to the bachelor of science degree, will be introduced with the opening of the fall semester.

The curriculum will be offered in the College of Agriculture with a major in marketing in the College of Business Administration, and will be jointly administered by the two colleges.

Senate Minutes

Minutes of the Meeting of April 2, 1959

The University Senate met at 4:15 p.m. on Thursday, April 2, 1959, in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the March 5, 1959 meeting were approved as printed in the Faculty Bulletin for March 13, 1959. 160 senators signed the roll.

Communications from University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: Miriam Lowenberg (Eva Wilson), Mary Dodds (Ina Padgett), Elizabeth Hester (Helen Guttrie), C. E. Woodring (G. G. R. Lucas), L. C. Hunt (R. H. Holtzman), R. H. Wherry (Rocco Carzo), D. H. Ford (H. W. Wall), J. E. Livingston (H. B. Couch), H. B. Sprague (A. S. Hunter), L. P. Guest (F. L. Whaley), W. C. Fernelius (Thomas Wartik), James Gemmel (G. R. Free), and J. A. Sauer (R. N. Work).

From M. A. Williamson, Dean of the College of Engineering and Architecture, reporting the appointment of V. N. Aolers as a member of the Senate to replace B. L. Snively pending the appointment of a director of the Ordnance Research Laboratory.

From K. L. Holderman, Chairman of the Senate Committee on Committees, the following:

The Senate Committee on Committees recommends that the following persons be appointed to serve on the newly established Committee on Faculty Affairs: David R. McClay (College of Agriculture); Richard M. Colwell (College of Business Administration); Leo H. Sommer (College of Chemistry and Physics); Charles M. Long (College of Education); George L. Thuerling (College of Engineering and Architecture); Marjorie East (College of Home Economics); Jessie R. Bernard (College of the Liberal Arts); John C. Grimts (College of Mineral Industries); Martna Adams (College of Physical Education and Athletics); James Gemmell (Graduate School). The Committee further recommends that James Gemmell serve as Chairman and David R. McClay be designated as Vice Chairman. The recommendation had the approval of President Walker.

From Coleman Herpel, Administrative Head, Ogontz Campus, the following:

The members of the University faculties serving at the several Centers and Campuses other than at University Park have long felt their connection with the Senate to be tenuous and uncertain.

While many members of the Senate serve by virtue of their official positions in administration and thus represent in some sense all of the persons under their administrative cognizance, the Senate as a body has acknowledged the need to preserve and to strengthen its basic structure as a body of elected representatives of the faculty.

Inquiry among my colleagues both of the faculty and of the administration seems to indicate that no member of the University faculty serving at a Center or Campus other than at University Park has participated either in the nomination or in the election of a senator. Mr. Gilbert Ward, Associate Professor of Physics at the Hazleton Campus, who is currently serving as a Senator by election of the faculty of the College of Chemistry and Physics, was nominated by his University Park colleagues and elected by them without the ballot participation of his colleagues on any other campus of the University.

I respectfully submit to the University Senate that there is need for direct participation by members of the faculties at all Centers and Campuses in the nomination and election of Senators, and, upon occasion, by service in the Senate.

President Walker referred this communication to the newly appointed Committee on Faculty Affairs.

Reports of Standing Committees

A. D. Brickman, Chairman of the SENATE COMMITTEE ON ACADEMIC STANDARDS, presented the report which had been distributed with the agenda as Appendix "A" and asked that section "A," "B," and "C" be acted upon separately. Section "A" contained a modification of Rule E-3 of the Regulations for Undergraduate Students, 1958-59. Mr. Brickman moved that the proposal in Section "A" be adopted. The motion was seconded and passed. Section "A" reads as follows:

1. Change Rule E-3 from—

A candidate for a bachelor's degree shall earn at least 60 of the last 75 credits re-

quired in his curriculum by enrollment in courses on the University Park Campus or in supervised field work, as defined in Rules B-1a and B-1c. The remainder of the credits required in his curriculum may be earned by resident instruction, by extension instruction, or by examination at The Pennsylvania State University; by transfer from another approved institution, or by a combination of these.

to the following:

A candidate for a first bachelor's degree shall earn at least 60 of the last 75 credits required in his curriculum by enrollment in courses on the University Park Campus or in supervised field work, as defined in Rules B-1a and B-1c. A candidate for a subsequent bachelor's degree shall earn at least 30 credits required in his curriculum by enrollment in courses on the University Park Campus or in supervised field work. The remaining curricular work required in either case may be earned by resident instruction, or extension instruction, or by examination at The Pennsylvania State University; by transfer from another approved institution; or by a combination of these.

2. Add the word "first" to Rule E-5 so it reads as follows:

A candidate for a first bachelor's degree shall earn the last 60 credits required for his degree within a total elapsed time of four calendar years and one summer session, except that an extension of time shall be granted for intervening military service.

3. Delete Rule E-11 entirely.

Mr. Brickman moved adoption of section "B" proposing changes in Rule L-4 and Rule I-9e of the Regulations for Undergraduate Students, 1958-59. The motion was seconded and passed. Section "B" reads as follows:

1. Change the first sentence of Rule L-4 from—

Credit by examination for work done in absentia may be granted to students who meet the requirements of the courses taken, and, after entrance requirements have been met, such credits shall be accepted for a degree.

to the following:

Credit by examination may be granted to students who meet the requirements of the courses taken, and, after entrance requirements have been met, such credits shall be accepted for a degree.

and make editorial modifications of other rules e.g. G-5, O-6, and M-8 as necessary for agreement with the revised L-4 rule.

2. Change Rule I-9e from—

The given course in which the evening examination is desired is a multiple section course of at least three sections given at different hours during the week.

to the following:

The given course in which the evening examination is desired is a multiple section course.

Mr. Brickman then presented Section "C" and moved adoption of the recommendation that the Rules Committee make appropriate editorial changes in Rule I-1f of the Regulations for Undergraduate Students, 1958-59. The motion was seconded. A. J. Shaler moved that the entire question of undergraduates attending "500" courses be studied by the Senate Committee on Academic Standards. The motion was seconded and passed. The complete report of the Committee is on file in the office of the secretary.

D. H. McKinley, Chairman of the SENATE COMMITTEE ON ADMISSIONS, presented the report which had been distributed with the agenda as Appendix "B" and moved adoption of the recommendation that the new curriculum in Food Retailing and Distribution be listed under the College of Agriculture under the requirement of category E. The motion was seconded and passed. The complete report is on file in the office of the secretary.

Mr. McKinley then presented the report which had been distributed with the agenda as Appendix "E," which referred to Rule E-3 of the Regulations for Undergraduate Students, 1958-59. The Committee recommends no amendment of Rule E-3 at this time; instead, it recommends that the Senate approve a policy of exceptions as follows:

The Committee proposes a policy whereby the Office of Admissions may admit to senior status any otherwise-qualified transfer applicant showing (a) personal hardship, such as separation from a spouse who is presently resident at Penn State, or (b) that the transfer will enable training not available to him at his present institution but available at Penn State. The Committee believes that these policy exceptions should cover most of the deserving situations. Any other unusual situation may be specially referred to the Committee by the Office of Admissions.

Mr. McKinley moved the adoption of these recommendations. The motion was seconded and passed. The complete report is on file in the office of the secretary.

P. A. Shelley, Chairman of the SENATE

COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "C" and moved its adoption. The motion was seconded and passed. The report is on file in the office of the secretary.

A. W. Hutchison, Chairman of the SENATE COMMITTEE ON EXTENSION POLICY, presented the report which had been distributed with the agenda as Appendix "D" regarding The Need to Increase the Effectiveness of the Baccalaureate Program of the University Centers and Campuses and a Plan by which this may be Accomplished. Mr. Hutchison moved adoption of the following recommendations which were contained in the report:

It is recommended that at the earliest possible date

a) The University develop at each Center or Campus offering two-year baccalaureate curriculums a program of courses which will enable students to complete two years of study and then transfer to the University Park Campus as regular students in the junior year in most curriculums.

b) Colleges and departments study their baccalaureate programs and make modifications in the sequential course requirements listed in the catalogue so that a program of courses similar to the suggested list in Appendix II would meet the requirements for the first two years in most curriculums.

c) The appropriate administrative officer of the University submit to the Senate, on or before January 15, 1960, a report of progress on the above items.

The motion was seconded. After some discussion the motion was passed. The complete report is on file in the office of the secretary.

The President announced that the Colleges are reminded that the names of the elected senators are to be submitted IN WRITING to the secretary before the May 7 meeting. The secretary will read the names at the May 7 meeting.

The next regular meeting of the Senate will be on May 7, 1959, in Room 121 Sparks Building. The agenda will be distributed on April 23, 1959.

President Walker explained to the senators the various sources of income available to the University and the expenditures which are made from each fund.

The meeting adjourned at 5:07 p.m.

Robert G. Bernreuter
Secretary

Appointments Announced

The following appointments to the faculty were announced by the Board of Trustees last week-end.

Dr. Thomas F. Magner, associate professor of Slavic Languages and chairman of the department of Slavic and Oriental languages at the University of Minnesota, has been named professor of Russian, effective Sept. 1.

Dr. Robert W. Lindsay, supervisor of research, constructional alloy steels, research and development department, Crucible Steel of America, has been named professor of metallurgy, effective June 1. He had been a member of the faculty previously, from 1943 to 1957.

Dr. Dale B. Harris, director of the Institute of Child Welfare, University of Minnesota, has been named professor of psychology, effective Sept. 1, to take charge of the educational-developmental section of the department of psychology.

Dr. Hugo D. Weisgall, noted composer, conductor, and arranger, now serving on the faculty of the Julliard School of Music, as distinguished visiting professor of music for the next academic year.

Dr. Dorothy J. Lipp, dean of women at the University of North Dakota, has been named dean of women, effective July 1.

Dr. Philip Young, who has served on the faculty of Kansas State College since 1953, has been named professor of American literature, effective July 1.

Calendar

Friday, April 10

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. M. Gardner Clark, professor of economics, Cornell University, on "The Soviet Steel Industry." Fluid Mechanics Seminar, 4:15 p.m., 105 Mechanical Engineering. Dr. Henry Margenau, distinguished visiting professor of physical and engineering sciences, on "Plasma Diagnostics."

Saturday, April 11

Graduate Student Association square dance, 8:30 p.m., Hillel Foundation. Faculty members as well as graduate students invited. Pennsylvania Modern Language Conference, Extension Conference Center. Principal address, 10:15 a.m., by Dr. Emanuel Salgaller, assistant professor of modern languages, Carnegie Institute of Technology.

Sunday, April 12

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Reverend Donald Cutler. Roman Catholic Mass, 9 a.m., Schwab Auditorium. Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. James McLeod, dean of students, Northwestern University.

Monday, April 13

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Dr. A. F. Buffington, professor of German, and C. Richard Beam, graduate assistant in German, on "Pennsylvania German Secular and Religious Folk Songs." Meeting of Sigma Gamma Epsilon, for business and election of officers, 8 p.m., Room 203, Willard. Engineering Mechanics seminar, 4:15 p.m., Room 203, Engineering "A." Dr. E. R. Fitzgerald. Linear Programming Seminar, 11 a.m., Room 101, Hunt. Peter Wegner, on "Increasing Returns to Size." Priestley Lecture by Dr. Thomas K. Sherwood, 8 p.m., Room 119, Osmond Lab. Meeting of faculty of College of Physical Education and Athletics, 7 p.m., Room 241, Recreation Building. Mineral Economics Seminar, 4:10 p.m., Room 121, Mineral Industries. W. H. Lane, on "Mining of Taconites." Jointly with Graduate Mining Seminar. Vesper Service, 4:15 p.m., Helen Eakin Eisenhower Chapel. Congregational order of worship.

Tuesday, April 14

American Association of University Professors meeting, 8 p.m., Room 111, Boucke Building. Robert L. Klotz, investment counsellor, on "Preparation of an Investment Portfolio for Faculty Members." American Society for Metals meeting, 7:30 p.m., Mineral Industries Auditorium. Dr. Charles O. Smith, consultant to the metallurgy division, Oak Ridge National Laboratories, on "Materials Applications in Nuclear Reactors." Priestley Lecture by Dr. Thomas K. Sherwood, 8 p.m., Room 119, Osmond Lab. Economics Faculty Seminar, 12 noon, dining room "A," Hetzel Union Building. Dr. Geoffrey Moore, National Bureau of Economic Research, on "Some Reflections on 1957-59 Recession and Recovery." Pan American Day. Tree planting, 5:15 p.m., HUB terrace. Dinner at 6 p.m., HUB ballroom.

Wednesday, April 15

Talk by Herschel D. Newsom, master of the National Grange, 7:30 p.m., Room 112 Buckhout on "Let's Put an American Philosophy into our Farm Programs." Priestley Lecture by Dr. Thomas K. Sherwood, 8 p.m., Room 119, Osmond Lab.

Thursday, April 16

Lecture by Dr. Moshe Greenberg, associate professor of Biblical studies, University of Pennsylvania, 8 p.m., Hillel Foundation, on "The Biblical Quest for Meaning." Priestley Lecture by Dr. Thomas K. Sherwood 4:30 p.m., Room 119, Osmond Lab. Mathematics Colloquium, 3:15 p.m., Room 124, Sparks. Dr. T. C. Benton, professor of mathematics, on "Some Potential Flows Inside a Cylinder." Vesper Service of Worship, 4:15 p.m., Helen Eakin Eisenhower Chapel. Jewish Passover service. Aquacade by Women's Recreation Association group, White Hall, 8 p.m.

Dr. Sherwood To Give Priestley Lectures

Dr. Thomas K. Sherwood, professor of chemical engineering at Massachusetts Institute of Technology, will present the 33rd annual Priestley Lecture Series next week.

The general topic will be, "Mass Transfer Between Phases." With the exception of Thursday, when the lecture is scheduled for 4:30 p.m., the lectures will be given at 8 p.m. in Room 119, Osmond Laboratory, Monday through Friday.

Dr. Sherwood has served on the faculty of Worcester Polytechnic Institute as well as M.I.T. He has received the William H. Walker Award of the American Institute of Chemical Engineers. He is the author of three books as well as many technical articles on various chemical engineering subjects.

Pan American Day Tuesday

Pan American Day will be celebrated on campus on Tuesday, April 14 with a tree planting ceremony at 5:15 p.m. on the south terrace of the Hetzel Union Building and a banquet at the HUB at 6 p.m., at which Henry W. Balgooyen, executive vice-president of the American and Foreign Power Co., New York, will be the speaker.

MLA Conference Tomorrow

The Pennsylvania State Modern Language Association, in cooperation with departments of German and Romance Languages, and with General Extension, will hold a conference tomorrow. Dr. Emanuel Salfaller, assistant professor of modern languages at the Carnegie Institute of Technology, will present the principal address at 10:15 a.m. in the Extension Conference Center on "The Impact of Boris Pasternak in the Non-Russian World."

Tickets On Sale For Artists Series Program

Tickets for the Artists Series program by Emlyn Williams, who will present a series of readings of the stories of Dylan Thomas on Saturday, April 18, will go on public sale on Wednesday, April 15 at the Hetzel Union Building desk.

Aquacade At White Hall

The annual "Aquacade" presented by the synchronized swimming group, "Naiads," of the Women's Recreation Association, will be given on Thursday, Friday, and Saturday evenings, April 16-18, at the White Hall pool, at 8 p.m. Tickets may be obtained at the main office in White Hall from 1 to 5 p.m., April 14-16.

Players Production Opens

The Players production of the new Russell Graves' play, "Iphigenia at Aulis," will open at Center Stage on Friday, April 17 at 8 p.m.

The comedy-drama will run each week end until May 16.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium
April 19—Dr. Joseph Haroutunian, professor of theology, McCormick Theological Seminar, Chicago.
April 26—Dr. Krister Stendahl, Harvard Divinity School.
May 3—Dr. Harold K. Schilling, dean of the Graduate School.

CONCERTS

April 28—Artists Series program by Michael Tree, violinist.

DRAMATICS

May 7-9—Players production of "The Boy Friend," by Sandy Wilson, Schwab Auditorium.

LECTURES

Apr. 13-17—Priestley Lectures by Dr. Thomas K. Sherwood, M.I.T.
April 22—Dr. Linus Pauling, California Institute of Technology, for American Chemical Society.
April 30—University Lecture Series. Senator Styles Bridges.

Dr. Linus Pauling In Two Lectures April 22

Dr. Linus Pauling, professor of chemistry at the California Institute of Technology, will present two lectures on campus on Wednesday, April 22.

He will speak at 3:15 p.m. in Room 119, Osmond Laboratory, on "Abnormal Hemoglobin Molecules and Disease," sponsored by the Colloquium Committee of the department of chemistry.

At 8 p.m., Dr. Pauling will talk on "Research for Peace," in a public lecture in Schwab Auditorium sponsored by the American Association for the United Nations, State College Friends Meeting, Social Science Research Center, and the University Christian Association.

Civil Defense Alert In Area Friday, Apr. 17

The State-wide Civil Defense Alert on April 17 will be observed on campus, as elsewhere, Dr. E. F. Olver, director of the division of security has announced.

The alert will be indicated by the Power Plant steam whistle, which will also be the signal for the community, sometime between 9:30 a.m. and 5 p.m.

Olver explains that the first signal, a steady blast for 3 to 5 minutes, is the actual alert, and signifies that residents should tune their radios to either 640 or 1240 kilocycles for emergency instructions.

Short blasts for three minutes constitute the "take cover" signal. All vehicles on campus will come to a complete stop and all people will take cover in campus buildings.

The all clear signal is one steady blast and signifies that normal activities may be resumed.

Bloodmobile Here

The Red Cross Bloodmobile will be on campus at the Hetzel Union Building from 10 a.m. to 4 p.m. on Wednesday and Thursday, April 22 and 23.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Distinguished Alumni Award Winners Listed

Distinguished Alumnus Awards will be conferred on five graduates at ceremonies during the Alumni Reunion on June 13. The five are:

H. J. Anslinger '15 is now Commissioner of Narcotics of the United States, a position he has held since 1930. He entered government service in 1917.

E. T. Asplundh '12 is chairman of the board of directors of Pittsburgh Plate Glass Co., with which he has been associated since 1919, with the exception of a five-year period.

F. P. Dodge '03 became associated with The Texas Co. in 1906 and remained with that company until his retirement in 1946.

G. L. Haller '27 is now vice-president of the General Electric Co., which he joined in 1954 as manager of the Defense Electronics Division, after serving as dean of the College of Chemistry and Physics here.

V. H. Leichter '30 is president of the American Steel and Wire Division of the U.S. Steel Corporation which he joined immediately after graduation.

Home Ec Spring Program Has Consumer Theme

Theme for the Home Economics Spring Week-End program today and Tomorrow is "Consumer Problems of Families." Sessions are being held in Home Economics Building, Hetzel Union Building, and Schwab Auditorium.

In addition to talks on special subjects, visitors may take tours of the campus or view exhibits in various areas of Home Economics.

Featured speaker today is Dr. Edwin G. Nourse, distinguished visiting professor of economics, who will talk on "Responsibility for Administering the Family Income" at 4:15 p.m. today in Schwab Auditorium.

This evening at 8:30 p.m. in Room 101, Hetzel Union Building, a panel will discuss "Retail Trading Stamps: Do They Help the Consumer."

Trustees Take Several Actions On Changes

Trustees of the University took several actions relating to physical plant changes on the University Park campus at their recent meeting.

They authorized the letting of bids for construction of 216 apartment units on East Campus, looking forward to the increased emphasis on graduate study in the future. The units will be of two-floor, residential type with as many as 20 units under one roof. They will be constructed on the rise east of Eastview Terrace.

Architects have been asked to make preliminary sketches and estimates for expansion of the Hetzel Union Building. No date for construction was indicated.

Detailed drawings and specifications involved in the closing of Pollock Road from Burrowes to Shortlidge were also asked. Purpose of the proposed change is to eliminate points of pedestrian and vehicular conflict.

Contracts are now being let for construction of a roof over the ice rink to make the rink available year-round for academic and recreational purposes. Construction will be made from borrowed funds, to be repaid from Athletic Association earnings.

Ward, Baker, Yoder Get NSF Fellowships

Gilbert H. Ward, associate professor of physics at the Hazleton Campus and Robert C. Baker, assistant professor of engineering at Behrend, have been awarded National Science Foundation fellowships for graduate study during the 1959-60 academic year. They will study at Cornell University.

The two were among 300 teachers out of thousands of applicants across the nation to be awarded the fellowships, which are designed to aid college teachers pursue advanced degrees.

Harold D. Yoder, instructor in zoology at the Altoona Campus, has been awarded an NSF summer fellowship. He will take graduate work for three years at Cornell.

Information Service Established On Events

At the suggestion of chairmen of several lecture, music, and dramatics series and events, a central listing place for such events has been established in the department of public information.

Mrs. Elinor Chamberlain, Room 309 Old Main, Ext. 2191, will maintain a listing of all campus lectures, concerts, exhibits, athletic events, and other public meetings. The list will include the nature of the event, time and place of meeting, sponsors, and other pertinent information.

Mrs. Chamberlain will also keep a file of information regarding speakers and lecture series in general, to aid chairmen in avoiding duplication of invitations and other contacts.

Chairmen will aid the file by providing Mrs. Chamberlain with such information as tentative plans, invitations rendered and refused, so that all chairmen will have access to it.

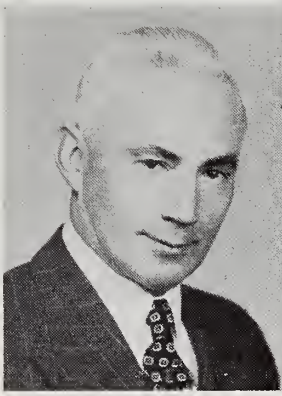
\$11 Million Bond Sale Aids Residence Halls

The sale by the University of the third issue of first mortgage bonds in the amount of \$11,000,000 has been announced. The money will aid in the construction of residence and dining hall facilities.

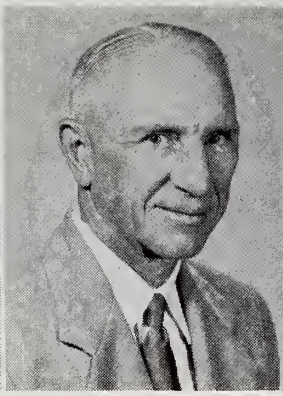
Sale of the bonds brings to \$45,600,000 the total value of bonds outstanding. Interest rate on this sale was 3.88 per cent. To complete construction authorized by the Board of Trustees, a final \$10,000,000 will be required before the end of 1959. The Federal Government has already pledged a loan for this amount at three per cent interest under the terms of the College Housing program.

Library Needs Book

The Pattee Library is in need of issues of "Publications and Research" for the year ending June 30, 1948, to replenish stock for exchange with other libraries. Call Ext. 528 if you have a copy of this issue.



Stavely



Lang



Musser



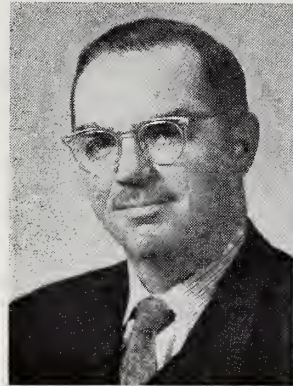
Rowland



Cope

With Emeritus Rank

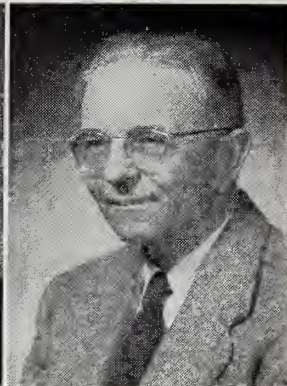
Trustees Announce Eight Retirements



Alderfer



Weston



Bischoff

THE Board of Trustees announced at its meeting on April 3 the retirement of the following members of the faculty and staff with emeritus rank:

Pearl O. Weston

Miss Weston began her career in 1912 as a teacher in the elementary schools of Carnegie, Pa., and until 1942 was employed in junior and senior high schools in the area and worked part time on development of courses of study and selection of text books for the Pittsburgh schools. She obtained the bachelor of arts degree from Penn State in 1929 and later master of arts and doctor of philosophy degrees were conferred by Duquesne University. In 1942, she became assistant dean of women and succeeded Charlotte E. Ray as dean in 1946. She will retire as emerita dean. During her years on campus, the number of women students enrolled mushroomed from 1,400 to the present 3,800. She was honored by the National Association of Women's Deans and Counselors, in which she has been quite active.

Earl B. Stavely

Retiring as professor emeritus of electrical engineering on July 1, Stavely has been associated with Penn State for over 50 years, first as a student in 1908. With time out for three years with an electric manufacturing firm and one year as assistant instructor at Columbia University, he has maintained his alliance with Penn State for the past 43 years. He became professor of electrical engineering in 1926, chairman of the administrative committee of the department of electrical engineering

in 1945, assistant dean of the College of Engineering and Architecture in 1948 and associate dean in 1957. He was acting dean during the summer of 1956. He has been intimately associated with student activities in the College for many years. His community activities have been extensive and he has been active in alumni activities.

Harold F. Alderfer

Since 1956, Dr. Alderfer has been on leave to serve with the Urban Renewal Administration, an agency of the federal government and more recently as deputy secretary of public instruction. He began his career at Penn State in 1928 in the political science department, after three years as superintendent of schools at Marion, S.D., and three years as a graduate instructor at Syracuse University. He was instrumental in forming the Institute of Local Government in 1936 and was named executive secretary, a position he held until 1956. He was also head of the political science department from 1954 to 1956. He graduated from Bluffton College and was granted master of arts and doctor of philosophy degrees from Syracuse. Parsons College, Fairfield, Iowa, also granted him an honorary doctor of laws degree.

Howard B. Musser

Recognized authority on turf grasses and author of the book "Turf Management," Musser is retiring with the rank of professor emeritus of agronomy. Graduate of Bucknell University, with a bachelor of arts degree in 1914, Musser earned the bachelor of science

degree from Penn State in 1917, meanwhile serving in high schools in West Virginia and Pennsylvania. He was scientific assistant in grain standardizing in the U.S. Dept. of Agriculture from 1917 to 1922, when he came to Penn State as assistant professor of agronomy extension. On military leave from 1942 to 1945, as a colonel in the U.S. Air Force, Musser supervised the treatment of air fields in this country comprising half a million acres of land. He has been honored many times for his work by such groups as turfgrass associations.

Charles J. Rowland

A graduate of Cornell University, with a master of business administration degree from Northwestern, Rowland began his teaching career in the Donora (Pa.) high school; two years later he became resident auditor with the Income Tax Unit, Washington, D.C. From 1921 to 1924 he was lecturer and writer on federal taxation at the Wharton School of Commerce. He was senior accountant with a Detroit firm in 1924 and a year later came to Penn State as assistant professor of economics. He has directed the courses in accounting and in 1953 was named head of the department of accounting and business statistics, resigning last year. He retires as professor emeritus of accounting.

H. Norton Cope

A graduate of Penn State in 1915, Cope entered the U.S. Forest Service immediately and with the exception of time for military service in World

War I, he served in the Forest Service until he joined the faculty at Mont Alto in 1929, the year the school affiliated with Penn State. He was resident director there until 1943, when Mont Alto was closed by wartime conditions and he transferred to the main campus. He retires with the rank of professor emeritus of forestry. He has been acting director of the School of Forestry for the past year.

Chauncey P. Lang

Retiring as professor emeritus of agricultural extension, Lang has been associated with the University since 1928, when he became assistant 4-H Club leader after teaching vocational agriculture in Ohio schools for ten years after World War I. He organized the Senior Extension Club program in 1936 and directed this work for the past 22 years. He was made State 4-H Club leader last year after the retirement of Allen H. Baker. Lang has also had charge of the International Farm Youth Exchange program in the State since the program started in 1948.

Eugen C. Bischoff

After two years of teaching at his alma mater, Oberlin College, Bischoff joined the faculty as assistant professor of physical education in 1926. Since 1936 he has directed the intramural program, recognized as the outstanding program of its type in the country. The program directs the athletic interests of non-varsity students into organized games and leagues. He has continued to teach along with the administrative duties of the intramurals.

Dejaiffe, Hodgen Named To AEC Summer Institute

Ernest Dejaiffe, assistant professor of engineering at the Altoona Campus, and Alden R. Hodgen, also assistant professor at Ogontz, have been selected by the American Society for Engineering Education to attend the Atomic Energy Commission's summer institute, which consists of six weeks of lecture and laboratory work at the University Park campus and two weeks at the Argonne National Laboratory in Chicago.

Krauss To Serve On Conference Council

Dr. Franklin B. Krauss, head of the department of Romance languages, will represent the University and the department at the sixth Northeast Conference on the Teaching of Foreign Languages in Washington today and tomorrow. He will also serve on the advisory council of the Conference.

Powers Title Changed

William H. Powers has been named associate dean for the Commonwealth Campuses and director of science extension in the College of Chemistry and Physics, effective July 1.

Powers has been director of arts and science extension since 1948.

Items of Interest

• Articles and Papers

M. A. Williamson, engineering, papers at the Industrial Research Organization Institute, University of Wisconsin, on "What Does Top Management Expect of its Research Department?" and "How Can the Research Department Make Sure that it Satisfies Management?"

P. S. Skell, chemistry, co-author of three papers at American Chemical Society national convention, titled: *Singlet and Triplet States for Bivalent Carbon Intermediates; Radical Reactions of Benzenesulfonyl Halides; and Structure of Methylene.*

L. H. Sommer, chemistry, at ACS convention, four papers, three dealing with "Substitute Reactions of Silicon" and the fourth, "Optically Active Organosilicon Compounds."

R. K. Murray, history, an article "General Sherman, the Negro, and Slavery," in March issue, The Negro History Bulletin.

J. K. Crouthamel, history, an article "Did the Second Bank of the United States Bribe the Press?" in the Winter, 1959, issue of the Journalism Quarterly.

J. F. Corso and Moira LaMay, psychology, a paper titled "Bodily Position and Auditory Thresholds," at 30th annual meeting, Eastern Psychological Association.

C. R. Carpenter, academic research and services, a paper titled "Problems and Possibilities of Electronic Systems in Higher Education," as part of a symposium at the Institute of Radio Engineers Mar. 25.

L. P. Greenhill, division of academic research and services, a paper titled "Instructor Produced Films for Teaching and Research in Psychology" before Eastern Psychological Association, April 4.

D. H. Ford, counseling, an article in the Spring Issue, Journal of Counseling Psychology on "Research Approaches to Psycho-Therapy."

V. E. Mares, economics, an article, "Czechoslovakia: Moscow's Model Satellite," in the April issue, "Current History."

E. A. Walker, president, an article titled "The Time is Now" in the March issue of the Institute of Radio Engineers' "Transactions on Education."

D. M. Cook, placement service, an article in IRE Transactions titled "College Recruiting."

J. W. Holl, Water Tunnel, a paper titled "The Inception of Cavitation on Isolated Surface Irregularities" at the A.S.M.E. Hydraulic Division Conference this week.

• Books

D. S. Pearson, electrical engineering, "Creative Image," published by Edwards Brothers, Inc., Ann Arbor, Mich.

T. D. Clark, history, a new textbook,

"Frontier America: The Story of the Westward Movement."

• Lectures

E. W. Mueller, physics, at 18th annual Frontiers in Chemistry lectures, Western Reserve University, on "Recent Study of the Atomic Structure of Metal Surfaces by Field Emission Microscopy," on April 3.

P. S. Skell, chemistry, at Brandeis University chemistry colloquium, on "Bivalent Carbon," on April 2.

Viktor Lowenfeld, art education, at Convention of the Association of Childhood Education International, on "Creativity and Art Education."

H. K. Schilling, Graduate School, visiting lecturer at Wittenberg College, this week.

A. M. Wellington, counseling in education, Delta Kappa Gamma Lewistown Spring Banquet meeting on April 16, on "Counseling—A Fourth Dimension in Teaching."

G. K. Nelson, accounting, at the monthly meeting of the Harrisburg chapter, National Association of Accountants, on "Education and the Accountant."

• Elected or Appointed

H. R. Albrecht, agricultural and home economics extension, as consultant in ecology for preparation of secondary school biology course, sponsored by American Institute of Biological Sciences.

G. R. Hudson, counseling in education, to State Advisory Committee on Guidance practices to develop State plan under the National Defense Education Act.

Joseph Marin, engineering mechanics, to honorary editorial advisory board of the new International Journal of Mechanical Sciences.

Jannette M. Burns, speech and drama (Altoona Campus), to serve as a judge for 13th National Debate Tournament, April 22-25.

New Gallery Opens In Temporary Building

An exhibit titled "Good Form: Man and Nature," consisting of well designed commercial products in reference to nature and its influence on man and his work, has opened the University's newest art gallery, Room 105, Temporary Building.

The exhibit will continue until April 24.

The Gallery is intended for student exhibitions and educational exhibitions pertaining to the training of art students. It was designed by Bill Hanson, instructor in art, who is a member of the exhibition committee, along with George Pappas, assistant professor, and Bruce Shobaken, instructor in art.

Chomicky Prizewinner

Yar Chomicky, associate professor of art education, won second prize for a water color he exhibited in the annual show at the Edinboro State Teachers College recently.

Calendar

Friday, April 17

Mineral Industries Colloquium, 4:15 p.m., Room 26, Mineral Industries. Dr. Howard B. Palmer, associate professor of fuel technology, on "Shock Tube Chemistry."

Priestley Lecture by Dr. Thomas K. Sherwood, 8 p.m., Room 119 Osmond Lab.

Opening night of Players production of "Iphigenia at Aulis," Center Stage, 8 p.m.

Aquacade, by Women's Recreation Association group, White Hall, 8 p.m.

Fluid Mechanics Seminar, 4:15 p.m., Room 105 Mechanical Engineering. Dr. George F. Wislicenus, director of the Water Tunnel and professor of aeronautical engineering, on "The Hydrodynamics and Propulsion of Submerged Bodies."

Baseball, versus Ohio State, 3:30 p.m., Beaver Field.

Home Ec Spring Weekend program, all day. Featured speaker, Dr. Edwin G. Nourse, distinguished visiting professor of economics, on "Responsibility for Administering the Family Income," 4:15 p.m., Schwab Auditorium.

Lecture by Dr. Louis Guttman, research director, Israel Institute of Applied Social Research and professor of social and psychological measurement at Hebrew University, on "The Measurement of Attitudes," 8 p.m., Room 111, Boucke Building. Sponsored by Social Science Research Center.

Faculty meeting, College of Agriculture, 4:15 p.m., Room 109, Armsry.

Saturday, April 18

Players production of "Iphigenia at Aulis," 8 p.m., Center Stage.

Aquacade by Women's Recreation Association swimming group, White Hall, 8 p.m.

Artists Series program by Emlyn Williams, 8:30 p.m., Schwab Auditorium.

Varsity baseball, versus Ohio State, doubleheader, 1 p.m.

Varsity golf, versus Georgetown, 1 p.m.

Varsity lacrosse, versus Hobart, 2 p.m.

Sunday, April 19

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Reverend Donald Cutler.

Chapel Service of Worship, 10:55 a.m., Schwab Auditorium. Dr. Joseph Haroutunian, McCormick Theological Seminary, Chicago.

Graduate Student Discussion Group, Home Economics Living Center, 7:30 p.m., on "What is America's Culture."

Talk by Dr. Joseph Haroutunian, chapel speaker, 4 p.m., Chapel Lounge, on "Grace and Freedom Reconsidered."

Monday, April 20

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. James H. Coogan, director of public information, on "Revolution in Communications."

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A." Dr. E. K. Fitzgerald, associate professor of physics, on "Dislocations."

Vesper Service of Worship, 4:15 p.m., Helen Eakin Eisenhower Chapel. Jewish service of Passover.

State College Color Slide Club, 7:30 p.m., Mineral Industries Auditorium. Dr. Dorothy Veon, professor of education, on "Islands in the Sun." Special slide classification of street scenes and buildings judged by A. W. Case.

American Statistical Association meeting, 5 p.m., Room 201, Willard Building. Dr. Charles Wrigley, distinguished visiting consultant in data processing, on "Recent Developments in Factor Analysis."

Trustee Bagshaw Dies

Kenzie S. Bagshaw, trustee since 1938, died at Hollidaysburg, Pa., this week at the age of 79. He was elected to the Board by delegates of agricultural societies.

Chapel Speaker Talks

Dr. Joseph Haroutunian, professor of theology at McCormick Theological Seminary, Chicago, who is the chapel speaker on Sunday, will also give a talk especially for faculty members and graduate students on Sunday afternoon, at 4 p.m. in the Chapel lounge, on the subject, "Grace and Freedom Reconsidered."

Tuesday, April 21

Geophysics and Geochemistry Seminar, 3:15 p.m., Room 121, Mineral Industries. Dr. Robert F. Schmalz, assistant professor of geology, on "Current Problems in Chemical Oceanography."

Economics Faculty Seminar, 12 noon, dining room "A," Hetzel Union Building. Dr. Roger B. Saylor, professor, and Dr. Robert W. Kautz, associate professor of business statistics, on "Unemployment in Pennsylvania."

Wednesday, April 22

Chemistry Colloquium, 3 p.m., Room 119 Osmond Laboratory. Dr. Linus Pauling, on "Abnormal Hemoglobin Molecules in Relation to Disease."

Lecture by Dr. Linus Pauling, 8 p.m., Schwab Auditorium, on "Research for Peace," sponsored by American Association for the United Nations, State College Friends Meeting, Social Science Research Center, and the University Christian Association.

Physics Seminar, 12 noon, 119 Osmond. Dr. Henry Margenau on "Foundations of Quantum Mechanics."

Thursday, April 23

Lecture in Biological Sciences, 4:15 p.m., Room 112, Buckhout Laboratory by Dr. A. M. Srb, professor of plant breeding, Cornell University, on "Extra-chromosomal Heredity in Neurospora."

Faculty meeting, College of the Liberal Arts, 4:15 p.m., Room 121, Sparks.

Physics Seminar, 12 noon, 119 Osmond. Dr. Henry Margenau on "Foundations of Quantum Mechanics."

Friday, April 24

Physics Seminar, 12 noon, Room 119 Osmond Lab. Dr. Henry Margenau on "Foundations of Quantum Mechanics."

Meeting of American Association of Physics Teachers, Central Pennsylvania Chapter, 119 Osmond Lab. Program of contributed papers.

Mineral Industries Colloquium, 4:15 p.m., Room 26, Mineral Industries. Dr. E. I. Doucette, Bell Telephone Laboratories, on "Some Electronic, Chemical, and Structural Properties of Pyrolytic Carbon."

Economics Faculty Seminar, 12 noon, dining room "B," Hetzel Union Building. Holland Hunter, associate professor of economics, Haverford College, on "Planning to Catch Up."

Dr. Margenau To Lecture On Quantum Mechanics

Dr. Henry Margenau, distinguished visiting professor of physical and engineering sciences, who is Eugene Higgins professor of physics at Yale University, will lecture at noon Wednesday, Thursday, and Friday, April 22-24, on "Foundations of Quantum Mechanics" in Room 119, Osmond Laboratory.

The lectures are sponsored by the department of physics.

On Saturday morning, April 25, Dr. Margenau will speak on "Selection of Topics for a General Physics Course" before the meeting of the Central Pennsylvania chapter of the American Association of Physics Teachers."

Departments interested in obtaining Dr. Margenau's services for lectures should contact Dr. R. G. Stoner.

Summer Institute

To Show Expansion

The National Science Foundation has granted \$100,900 in support of an expanded Summer Institute for High School Teachers of Science and Mathematics, June 29 to Aug. 7.

Two new features will be included this year: an experimental physics curriculum for high schools will be discussed in one section, and a new approach to teaching mathematics in another section.

The NSF will provide 50 stipends for the regular science program and 25 each for the two new sections.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

April 26—Dr. Krister Stendahl, Harvard Divinity School.

May 3—Dr. Harold K. Schilling, dean of the Graduate School.

CONCERTS

April 26—Glee Club Concert, 3 p.m.

April 28—Artists Series program by Michael Tree, violinist.

May 7-8—Spring Dance Concert WRA, at White Hall.

May 10—Glee Club Concert, 3 p.m.

May 14—Chapel Choir Spring Concert

May 17—Meditation Chapel Choir Concert

DRAMATICS

May 7-9—Players production of "The Boy Friend," by Sandy Wilson, Schwab Auditorium.

LECTURES

April 30—University Lecture Series. Senator Styles Bridges.

Films To Be Previewed

Films listed below have been requested from producers. Please call Extension 2051 and give code number of those you would like to see; you will be notified when they arrive so that you can arrange a preview showing in Room 9, Library.

- A-1 Rocks for Beginners
- A-2 Beyond Our Solar System (elementary science)
- A-3 Engines and How They Work
- A-4 Geography of South America: Five Northern Countries
- A-5 World of Molecules (elementary science)
- A-6 Doctor's Dilemma (excerpt from MGM production)
- A-7 Christmas Deer
- A-8 A Badger's Bad Day
- A-9 Forest Babies
- A-10 Alaska Today
- A-11 Science of the Sea
- A-12 Peaceful One (Hopi society)
- A-13 Navajo Canyon Country (effect of habitat)
- A-14 Tribe of the Turquoise Water (Havasupais)
- A-15 Villages in the Sky (Hopi pueblo)
- A-16 A Family of Lisbon, Portugal
- A-17 Small Explosion (Universal Declaration anniversary)
- A-18 Dancer's World (Martha Graham)
- A-19 Student Nurse

Biosciences Lecture

By Dr. Srb Thursday

The next Lecture in Biological Sciences will be presented by Dr. A. M. Srb, professor of plant breeding at Cornell University, on April 23 at 4:15 p.m. in Room 112, Buckhout Laboratory.

An internationally recognized geneticist, Dr. Srb is well known for his studies of the effects of genes in determining pathways of metabolism in the bread mold and of phases of heredity of the mold not controlled by nuclear genes.

Dr. Srb will speak on "Extra-chromosomal Heredity in Neurospora."

Grad School Meeting

Members of the faculty of the Graduate School will meet next on Tuesday, May 19, at 4 p.m. in Room 121, Sparks. They are asked to make special note that the meeting is on Tuesday rather than Thursday, as customary.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA

46/28

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

From Coal, Water

Tough Competition Faced By Atomic Power Plants

Dr. Phyllis R. Greiss and Dr. George F. Deasy, both of the department of geography, believe that atomic energy power plants will not find it easy to replace conventional coal and hydroelectric plants which are producing power for six mills per kilowatt hour or less.



HOMEOWNERS who have looked with high hopes to atomic energy as a source of cheap electric power and consequently lower light bills are probably in for a disappointment, says Dr. George F. Deasy, professor, and Dr. Phyllis R. Griess, associate professor, in the department of geography.

In December, 1957, the Duquesne Light Co., serving Pittsburgh, put into operation the first atomic fuel power plant at Shippingport, Pa., with considerable fanfare all around. Soon to be built is another, although smaller, plant at Saxton, Pa. Others are contemplated.

"There is no doubt," says Dr. Deasy, "that atomic power plants are in the future. But our studies show that coal and hydro plants will probably continue to compete favorably with atomic power, if they are efficient, for many years to come."

The two geographers have been studying electric power production for a number of years because of their interest in the Commonwealth's economy, especially in its relation to fuels. Recently they presented a paper at a meeting of the Pennsylvania Academy of Science on the subject of "Competitive Capabilities of Pennsylvania's Electric Generating Plants in the Coming Atomic Era."

In the paper it is pointed out that the

decision to build the first atomic plant at Shippingport was particularly wise in that the plant in effect will compete with one of the oldest and most inefficient large plants in the State, the Brunot Island station of the Duquesne Light Co. Competitively, the atomic powered plant will stand up well in this situation.

"But the fact is," says Dr. Griess, "that there are relatively few large power plants with production costs as high as those of the Brunot Island plant."

The data collected on power production costs (and reported in the paper) show that of the 122 power plants in Pennsylvania for which costs are available (and these represent 90 per cent of the total generating capacity of the State), 24 have very high production costs of over 20 mills per net kilowatt hour. These are the plants considered most likely to be replaced in the future by atomic plants.

"But none of these plants are of large capacity," says Dr. Deasy, "and only two are of medium capacity. Moreover, one-third of these plants are owned by industrial concerns and are not private (public) utilities. And again, some of these plants are not even supplying power daily but are held in reserve."

In the not-too-distant future, some

of the plants in the second category—high production cost—will also be subject to the active competition of atomic plants, Dr. Griess says. These plants produce electricity for 9 to 20 mills per kilowatt hour.

"Existing atomic plants probably produce electricity for between 30 and 60 mills," she points out. "A plant is being built in Massachusetts with an anticipated production cost of about 15 mills. The perhaps attainable aim is to achieve 10 mill atomic power by 1963 and 8 mill power by 1965."

The "high cost" stations now in operation are generally small plants. Only one high cost station of medium capacity is in use, and that happens to be owned by the Pennsylvania Electric Co. at Saxton, where the next atomic plant is to be built. All of the remaining 35 high cost plants are of small capacity.

"Owners of medium cost power plants, where production costs range from 6 to 9 mills, probably need not fear competition from atomic power for more than a decade."

The elite of the conventional power plants — those producing energy at less than 6 mills — are generally large plants and together they represent

(Continued on page three)

Telephone System Modernized

The University's new telephone system will be one of the most up-to-date in the country when it goes into effect in August.

Service men of the Western Electric Co., subsidiary of American Telephone and Telegraph which installs equipment, are currently setting up the complicated mechanisms in the new telephone building, north of Boucke Building. When completed, the system will virtually eliminate the central operator and make almost all calls "direct dialing."

The tremendous growth of the University, both past and contemplated, has necessitated the changeover. Wilbur F. Diehl, manager of telephones in the department of maintenance, says improved service will result immediately.

"Since 1956," Diehl adds, "we have been unable to add primary lines to the present system and have reached the saturation point on new installations. The new system has the effect of eliminating these primary lines so that a person on campus may be dialed directly from any point on or off campus without having to go through a central switchboard."

Diehl explains further that the availability of lines for outgoing calls will also be increased. Whereas at present only two lines are definitely set aside for outgoing calls, with 40 lines serving both incoming and outgoing calls, the new system will provide 47 lines for outgoing calls alone. A total of 79 lines will be allotted to calls coming in from State College and other nearby points, plus 20 trunk lines to connect long distance with the campus.

Success of the switchover in August will depend on the cooperation of persons calling into the University, telephone officials explain. Since direct dialing is the main difference between the new and current systems, persons calling in will be required to know the number of the person being called, rather than the University's general number.

The University now has about 5,800 phones in campus buildings, including residence halls, making the campus equivalent to a community of about 20,000 people. Since the present system was installed in 1950, the number of phones has nearly doubled.

Pyle Given Award For Adult Education Work

Hugh G. Pyle, in charge of the Division of Informal Instruction in General Extension, has been given the 1959 Pennsylvania Association for Adult Education award "For Distinguished service to adult education in the Commonwealth of Pennsylvania."

In his 34 years at Penn State, Pyle has been instrumental in adult education through supervision of correspondence study and has taken the initiative in organizing extension programs in public safety, nursing education, audiovisual aids, labor education, and a broad program of institutes, conferences, and short courses for many adult organizations in the State.

Information Needed

The new telephone system that goes into operation in August will require a new directory at the time of the switchover. Since the system will require direct dialing to students, faculty, and staff members on campus, it will be important to have these numbers readily available, both on campus and off campus.

At the present time, directory information cards are being sent to departments for distribution to all faculty and staff members. These cards must be filled out if the faculty or staff member is to be reached by phone, whether his number is published in the directory or not. Information operators will have a record of those phone numbers not published.

The cooperation of the entire staff of the University is asked in returning the cards as promptly as possible so that work on the directory can begin immediately.

Dr. Hersch To Give Final Liberal Arts Lecture

Dr. Jeanne Hersch, distinguished visiting professor of philosophy, will present the concluding lecture in the series sponsored by the Liberal Arts Lecture Committee on Monday, May 4 at 8 p.m. in Room 110 Electrical Engineering.

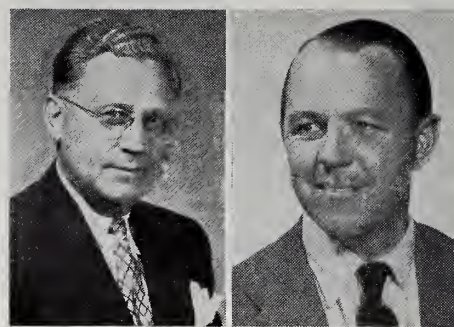
She will speak on "Berlin Crisis: A Threat to the Federation of Europe."

On leave from the University of Geneva, where she is professor of philosophy, Dr. Hersch has also taught at the International School of Geneva and in Chile and has been tutor to the royal family of Thailand. She is recognized internationally as an interpreter of Karl Jaspers and as an original thinker in the existentialist tradition.

Panel Discussion Set To Follow Pauling

A panel discussion on the theme, "Science, Morals, and Peace," sponsored by the University Christian Association will be held Wednesday, April 29, at 8 p.m. in the Helen Eakin Eisenhower Chapel lounge.

Drs. Jessie Bernard, James L. Fritz, Luke T. Lee, and Rustum Roy will participate in the discussion, which is planned as a continuation of the talk by Dr. Linus Pauling on "Research for Peace" on Wednesday of this week.



Keller

Holderman

Realignment Made Of Extension Activities

Edward L. Keller has been named director of Continuing Education Services and Kenneth L. Holderman, coordinator of Commonwealth Campuses in an organizational realignment designed to separate the administration of the system of Commonwealth campuses from General Extension and enrich the offerings of the latter.

Holderman will represent the President in all matters involving the centers and campuses and serve as liaison between administrative officers of the University and the 14 urban area centers.

Keller will devote his full time to "enrichment of our rapidly expanding program in continuing education," said President Walker.

The recently organized Center for Continuing Liberal Education, which is concerned only with social sciences, arts, and humanities, will continue to operate, under the Continuing Education Services.

McDougall Receives Farm Service Award

R. H. McDougall, Butler county agricultural agent, has been selected to receive the 1959 Distinguished Farm Service Award of the Agricultural Division of American Cyanamid Co.

The award will be made by President Eric A. Walker at a dinner here on May 28.

McDougall has been county agent in Butler County for 30 years and previously was Elk County agent.

AEC Chairman To Give Commencement Address

John A. McCone, chairman of the Atomic Energy Commission, will deliver the Commencement Address. The program is scheduled for June 6, for Beaver Field if the weather is good, or for Recreation Building in case of rain.

McCone began his career as a construction engineer with the Llewellyn Iron Works and held executive posts later with several industries on the west coast. He served in 1947-48 on the President's Air Policy Commission, then as deputy to the Secretary of Defense, and in 1950-51 as Undersecretary of the Air Force.

Items of Interest

• Articles and Papers

A. W. Hussman, engineering research, a paper on June 15 at the International Combustion Engine Congress at Wiesbaden, Germany, on "Diesel Exhaust Blowdown Energy."

J. M. Morse, English composition, a paper titled "Nicholas of Cusa and James Joyce," at the 12th Foreign Languages Conference, at Lexington, Ky.

J. L. Grucci, English composition, a poem appearing in the special edition of Duquesne University literary magazine, "Overture."

Papers by S. F. Mack, T. E. Mott, Henry Hiz, H. L. Krall, and R. L. Duncan, all of mathematics, in latest issue of "American Mathematical Monthly."

E. E. Ambrosius, mechanical engineering, assisted in preparation of fifth edition of the publication, "Fluid Meters, Their Theory and Application," published by American Society of Mechanical Engineers.

R. L. Slobod, petroleum and natural gas engineering, a paper titled "The Effect of Viscosity Ratio and Path Length on Miscible Displacement in Porous Media," before the Eastern district meeting of the American Petroleum Institute, co-authored with E. J. Burcik and Barron H. Cashdollar.

J. J. Kaufman, economics, at the 9th Labor-Management Conference, West Virginia University, on "The Changing Work Force Requirements in West Virginia."

E. A. Walker, president, a paper titled "A Matrix For Excellence" in the March, 1959, issue of "Liberal Education," the proceedings of the 45th annual meeting of the Association of American Colleges.

E. A. Myers and R. S. Stout, economics, an article titled "New Federal Aids for Small Businesses" in the Michigan Business Review, published by the School of Business Administration, The University of Michigan.

• Elected or Appointed

Rebecca Doerner, international student affairs, elected as director, National Association of Foreign Student Advisers, for two years.

Merrill Wood, zoology, vice-president of the Eastern Bird Banding Association.

H. M. Southworth, agricultural economics, editor of the "Journal of Farm Economics," the quarterly publication of The American Farm Economics Association.

P. B. Pfahl, floriculture, elected vice-president of Pi Alpha Xi, national honorary floriculture fraternity.

R. L. Slobod, petroleum and natural gas engineering, to a special committee of the American Institute of Mining Engineers to develop interest in earth sciences and mineral industries.

• Lectures

E. J. Nichols, English, at meeting of the Lancaster County Historical Society, on "The Military Record of General John F. Reynolds."

A. E. Neyhart, Institute of Public Safety, at 30th anniversary convention of the Northern California Motor Car Dealers Association, on "Traffic Safety—An Investment." Also at meeting of National Automobile Dealers Association in Chicago.

E. W. Muller, physics, to serve as visiting lecturer next week at the University of Richmond, under the auspices of the American Association of Physics Teachers and the American Institute of Physics.

H. W. Frings, zoology, three lectures at the University of Maryland, in the field of bioacoustics, last week.

D. C. Jones, mineral industries extension, a talk on "How Has Education in the Last 50 Years Affected Safety in Our Coal Mines" at a meeting of the Pittsburgh Coal Mining Institute.

H. W. Frings, zoology, the Annual Public Lecture on Ornithology, at Bowdoin College, yesterday.

W. L. Muschlitz, engineering research, before Institute on Hospital Engineering, on "Efficient Power Plant Operation."

• Books

E. S. Roscoe, industrial engineering, of text, "Organization for Production," revised edition, March, 1959.

O. E. Lancaster, engineering education, editor of book, "Jet Propulsion Engines" published by Princeton University Press.



Aston



Sauer

Sauer, Aston Awarded Guggenheim Fellowships

Dr. John A. Sauer, head of the department of physics, and Dr. John G. Aston, director of the Low Temperature Laboratory, have been awarded Guggenheim Fellowships for the 1959-60 academic year.

They are among 321 scholars and artists awarded fellowships with a total value of \$1½ million by the Foundation.

Dr. Aston will study in Europe, mostly in England, and will be concerned with a study of rotation and migration in the solid state.

Dr. Sauer will conduct research in the field of high polymers in relation to molecular structure, at Oxford University. He also plans to visit laboratories in England and Europe.

Atomic—

(Continued from page one)

much of the total generating capacity in the State.

"These low cost plants have achieved such a high degree of efficiency that they will probably not be faced with competition from atomic power for decades to come," says Dr. Deasy.

Assuming, however, that atomic plants could cut the cost of generation of power considerably below that of many existing plants, the average customer would not realize great savings for the very good reason that much of the cost of electric energy goes into overhead and transmission and distribution.

"If a plant is operating with production costs of 9 mills and is replaced by another plant with costs of only 6 mills, the consumer using 500 kilowatt hours per month would save \$1.50," explains Dr. Griess.

"Reducing costs below the levels of most plants now directly supplying the great segment of the public is not going to be easy. As the cost of building atomic plants comes down the replacement of conventional plants will be more feasible, but at present atomic power is not competitive with modern, efficient, coal or hydroelectric plants."

The fear that coal plants may be without sources of fuel is unfounded here in Pennsylvania, at least for many years to come, says Dr. Deasy. Coal reserves are quite ample for present uses. Hydroelectric plants, which generally fall into the category of "low cost," would need only updating to maintain their competitive position. Oil and gas plants, however, do face competition from atomic plants. Of the "low cost" plants in the study, only one small plant serving a petroleum refining facility near Philadelphia uses fuel oil or gas exclusively. All other gas or oil plants fall into medium or higher cost categories.

Both Dr. Deasy and Dr. Griess emphasize that their conclusions are based on the present data regarding atomic plants and there isn't a great deal available. They concede that science and technology may come up with new methods of transforming atomic energy to electrical energy, increasing the efficiency of generating plants beyond present expectations.

"But the Shippingport plant," says Dr. Deasy, "could well have been a modern coal burning plant if the objective were simply to supply electricity as cheaply as possible and the production costs would have been much lower than they are. However, Duquesne Light Co. is now getting a lot of good experience and the government helped the company build the plant. They couldn't turn down a bargain like that."

Glee Club Concert

The Glee Club will present a concert at 3 p.m., Sunday, April 26 in Schwab Auditorium.

Calendar

Friday, April 24

Physics Seminar, 12 noon, Room 119 Osmond Lab. Dr. Henry Margenau on "Foundations of Quantum Mechanics."

Meeting of American Association of Physics Teachers, Central Pennsylvania Chapter, 119 Osmond Lab. Program of contributed papers.

Mineral Industries Colloquium, 4:15 p.m., Room 26, Mineral Sciences. Dr. E. I. Doucette, Bell Telephone Laboratories, on "Some Electronic, Chemical, and Structural Properties of Pyrolytic Carbon."

Economics Faculty Seminar, 12 noon, dining room "B", Hetzel Union Building. Holland Hunter, associate professor of economics, Haverford College, on "Planning to Catch Up."

Mathematics Colloquium, 8 p.m., Room 202 Willard Building. Dr. Leslie Fox, head of the computation laboratory, Oxford University, England, on "The Determination Eigen Values of Ordinary Differential Equations."

Center Stage production of "Iphigenia at Aulis," 8 p.m.

Eleventh Annual Pennsylvania Intercollegiate Reading Festival, 9:30 a.m., Short Story, 1:30 p.m., Drama, in Assembly Room, Hetzel Union Building.

Fluid Mechanics Seminar, 4:15 p.m., Room 105 Mechanical Engineering. Dr. John Lumley, research associate, mechanical engineering department. The Johns Hopkins University, on "Some Comments on Turbulent Dispersion"

Saturday, April 25

Meeting of Central Pennsylvania chapter, American Association of Physics Teachers, Room 117 Osmond Laboratory. Featured speaker, Dr. Henry Margenau, distinguished visiting professor of physical and engineering sciences, on "Selection of Topics For a General Physics Course."

Baseball, versus Georgetown, doubleheader, 1 p.m., Beaver Field.

Tennis, versus Georgetown, 2 p.m.
Center Stage production of "Iphigenia at Aulis," 8 p.m.

University Christian Association Lecture in Christian Theology, 8:30 p.m., main lounge, Helen Eakin Eisenhower Chapel. Dr. Krister Stendahl, Harvard University Divinity School.

Sunday, April 26

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Mr. Richard Dulin. Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Krister Stendahl, professor of New Testament, Harvard Divinity School, Cambridge, Mass.

Glee Club Concert, 3 p.m., Schwab Auditorium.

Monday, April 27

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. State Senator Jo Hays on "Legislation and Education."

American Statistical Association meeting, 5 p.m., Room 201 Willard Building. Dr. Charles Rigney, psychology department, Michigan State University, on "Recent Developments in Factor Analysis."

Vesper Service, 4:15 p.m., Helen Eakin Eisenhower Chapel. Discussion of Brahms' "A German Requiem."

Linear Programming Seminar, 11 a.m., Room 101 Hunt Building. Peter Wegner on "Input-Output Analysis."

Graduate Mining Seminar, 3:30 p.m., Room 24, Mineral Industries. Robert Stefanko, on "Layout of Exploration Drilling Program."

Engineering Mechanics Seminar, Room 203, Engineering "A", 4:15 p.m. Dr. E. R. Fitzgerald, associate professor of physics, on "Viscoelastic Properties of Solids."

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. Sidney Tickton, Fund for Advancement of Education, on "Economics of Education."

Tuesday, April 28

Artists Series program by Michael Tree, violinist, 8:30 p.m., Schwab Auditorium.

Science Institute for Teachers lecture by Dr. Hubert W. Frings, professor of zoology, on "Sounds, Sodium Ions and Scaevola," 4:15 p.m., Room 112 Buckhout Laboratory.

Physics Colloquium, 4:15 p.m., Room 117, Osmond Lab. Dr. L. Goldstein, department of electrical engineering, University of Illinois, on "Propagation of Microwaves in Gaseous Discharges."

Wednesday, April 29

Baseball, versus Villanova, 3:30 p.m.

Tennis, versus Bucknell, 3:30 p.m.

University Christian Association sponsored panel discussion on "Science, Morals, and Peace," 8 p.m., Helen Eakin Eisenhower Chapel main lounge, with Drs. Jessie Bernard, James L. Fritz, Luke T. Lee, and Rustum Roy.

Thursday, April 30

Mathematics Colloquium, 3:15 p.m., Room 124 Sparks Building. Dr. C. C. Hsu, associate professor of mathematics, Lehigh University, on "Betti Numbers and Curvature of Riemann Spaces with Boundary."

Lecture Series in Biological Sciences, 4:15 p.m., Room 112 Buckhout Laboratory. Dr. Sterling B. Hendricks, chief scientist, mineral nutrition laboratory, Soil and Conservation Research Division, U.S.D.A. on "A Part of the Mechanism of Ion Uptake by Plants."

Vesper Service, 4:15 p.m., Helen Eakin Eisenhower Chapel. Discussion of Brahms' "A German Requiem."

University Lecture Series, 8 p.m., Schwab Auditorium, U.S. Senator Styles Bridges, of New Hampshire.

Friday, May 1

Mineral Industries Colloquium, 4:15 p.m., Room 26, Mineral Sciences. Films titled "Vacuum Science," courtesy of W. M. Welch Mfg. Co.

Center Stage production of "Iphigenia at Aulis," 8 p.m.

Artists Series Schedules

Two Groups For Summer

The Robert Joffrey Theatre Ballet and the Philadelphia Brass Ensemble have been scheduled by the University Artists Series for appearances during Summer Sessions.

The Ballet group, a company of 16, will present a concert in Schwab Auditorium on June 19. The Brass Ensemble is composed of six musicians who hold first chairs in the Philadelphia Orchestra. It will present a program on Sunday, July 26 on the terrace of the HUB or in the ball room.

Biosciences Lecture By Beltsville Lab Scientist

Dr. Sterling B. Hendricks, U.S. Department of Agriculture at Beltsville, Md., will speak on "A Part of the Mechanism of Ion Uptake by Plants," in the Lecture Series in Biological Sciences on Thursday, April 30 at 4:15 p.m., Room 112, Buckhout Laboratory.

A recognized authority on the relation of soil chemistry to plant nutrition, Dr. Sterling is chief scientist, mineral nutrition laboratory.

Sod For Sale From Turfgrass Plots

Construction contemplated in the near future at the site of the University's famous turfgrass plots near the flower gardens is making available to area residents an unusual bargain.

The entire test area, 25,000 square feet in all, must be removed in the near future and rather than consign it to the compost heap, Dr. H. B. Musser, who has been in charge of the tests, and the department of agronomy, have elected to sell the sod.

Orders will be taken by the department of agronomy (Ext. 611) and the sod will be cut ready for the person to pick up at his convenience. Minimum orders of 500 square feet are required. The sod will be cut in widths of 12 inches and lengths of 5 feet for easy handling. Each of these strips weighs about 25 pounds.

The price of the sod is 25 cents a square yard. The grass is Merion Kentucky Blue and Pennlawn Fescue, which was developed by Dr. Musser in the test plots.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

May 3—Dr. Harold K. Schilling, dean of the Graduate School.

May 10—Dr. Luther Harshbarger, University chaplain.

May 17—Dr. Joseph Sittler, University of Chicago.

May 24—Dr. Edmund A. Steimle, of Philadelphia.

CONCERTS

May 7-9—Spring Dance Concert WRA, at White Hall.

May 10—Glee Club Concert, 3 p.m.

May 14—Chapel Choir Spring Concert

May 17—Meditation Chapel Choir Concert

May 24—Blue Band Concert.

DRAMATICS

May 7-9—Players production of "The Boy Friend," by Sandy Wilson, Schwab Auditorium.

LECTURES

May 4—Liberal Arts Lecture by Dr. Jeanne Hersch.

May 23—Distinguished Lecture in Philosophy by Dr. Charles Hartshorne, Emory University, on "Mind as Memory and Love."

Lecture Series Lists

Sen. Bridges Thursday

The third speaker in the current University Lecture Series will be Senator Styles Bridges, of New Hampshire, chairman of the Republican Policy Committee of the U.S. Senate.

Sen. Bridges will speak on Thursday, April 30, at 8 p.m. in Schwab Auditorium. Earlier this year Mrs. Elinore Roosevelt and Clement Attlee spoke in this series.

Tickets will be distributed on Tuesday, April 28 at the Hetzel Union Building. One hundred will be sold at \$1.25 to non-students. The remainder will be distributed without charge to students. Tickets will be honored until 7:50 p.m. after which remaining seats will be available to the general public.

TV Series Focuses

On Ethnic Patterns

The current "Penn State: Its Men and Ideas" television series is focusing attention on the changing ethnic patterns of the American family at 9:50 a.m. Monday, Wednesday, and Friday over WFBG-TV, Channel 10.

Next week Dr. Jessie Bernard, professor of sociology, and Nolvart Scott, graduate student in sociology, will discuss the Negro family.

Summer Session Asks

For Housing Listing

Faculty members having available for lease this summer either furnished apartments or houses who wish to list the facility on the Summer Session roles may obtain the necessary application forms at Room 101, Willard Building.

There is an urgent need for additional housing at this time and the listing will aid in filling the great number of requests now being made. The list is made available to anyone coming to the Summer Session office.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Pay More For Better

Employers More Selective

GRADUATING seniors are finding that potential employers are bidding high for the best students but are being somewhat more selective than in 1957, says George N. P. Leetch, director of the University Placement Service.

"Last year," Leetch says, "there was a sharp reduction in job recruitment because of general economic conditions. Many companies, however, now feel they made a mistake in not continuing their recruitment program, hiring at least a basic number of students, so that their replacement system is not interrupted."

For the first time in recent years, says Donald M. Cook, assistant director, some companies are now stipulating that they wish to interview only students in the upper half of their class. This emphasis on academic achievement does not necessarily replace concern with the student's all around development, but rather reflects a desire to emphasize the one factor the employer has as a guide to achievement — grades.

"When the employer says 'Get me the top students', the personnel department has no choice but to look at grade point averages," says Leetch.

Salary ranges this year appear to be up somewhat on the average but especially for the top students. Engineers and scientists are in great demand again and the average starting salary has risen from \$483 to \$500 a month.

In the last several years, Leetch points out, there has been an increasing interest in hiring of non-technical graduates by technical companies (General Electric Co., for example) through the interviewing system developed by the Placement Service. Therefore, he adds, more non-technical students are now making use of the Service.

"However," Leetch adds, "we feel that many more seniors in non-technical fields should check the job opportunities we have listed."

In the field of education, where Raymond H. Amalong is the associate director in charge of teacher placement, there has been noted an increasing

amount of "recruiting" and an increase in starting salaries.

"Few school districts," says Amalong, "are paying the minimum starting salary in Pennsylvania of \$3600."

There is noted an increasing demand for men in the elementary education field, but there are few men available, Amalong points out. Consequently, where the school district has the money, these men are being offered salaries above the general average.

In recruitment of teachers, Amalong notes, personnel men of entire counties or large school districts are coming to the campus to hire for not just one but many schools. Recently such a personnel man from Maryland was out to hire 250 new teachers.

Last year 449 graduating seniors were certified to teach; this year there are estimated to be 495 eligible for certification.

Of considerable significance, Leetch feels, is the fact that more and more companies are asking the aid of faculty members in evaluating the qualifications of graduates.

"In some cases," he adds, "this may mean that grades are not necessarily emphasized above all other qualifications. However, academic achievement is still an important factor in selection."

Road Closed

The west entrance to East View Terrace has been closed to protect residents in the area. In spite of signs warning motorists that through traffic was not permitted, the volume of traffic increased, at great hazard to the children of the area.

Science Fair Exhibits

Open Tomorrow Publicly

The annual Science Fair will be held today and tomorrow with over 475 science projects arranged by junior and senior high school students set up in various rooms in Whitmore Laboratory. The public may see the exhibits from 1:30 p.m. to 5:30 p.m. tomorrow.

Preliminary judging of the exhibits will be held after 8 p.m. this evening and final judging from 8:30 a.m. to 10 a.m. tomorrow. The judges' decisions will be announced at 1:15 p.m. tomorrow in Schwab Auditorium.

The Grand Champion will receive a \$500 scholarship that may be used at the college of his choice. Two students from the senior high division will receive \$250 scholarships to Penn State and the junior high champion will receive a \$100 U.S. Savings Bond. A total of 49 awards of bonds and medals will be given for other placings.

Twenty-three faculty members will serve as judges for the Fair.

Brundage To Lecture On Budget Matters

Percival F. Brundage, who served two years as director of the Federal Bureau of the Budget from 1956 to 1958, will speak on campus three times in the next two weeks, sponsored by the department of political science.

On Thursday, May 7, and Monday, May 11, at 3:15 p.m., he will speak in the Hetzel Union Building Assembly Room. On May 12, he will address the regular Economics Faculty Seminar at noon in the HUB Dining Room "A". The latter talk is co-sponsored with the department of economics.

The three talks are all related to "Sound Budgeting," referring to federal spending. In the first talk, Mr. Brundage will speak on the budget process and fiscal accounting controls; the second talk will be an analysis of different programs and problems in such areas as agricultural, defense, veterans, etc.; and the third talk will stress recommendations for improving administrative and congressional procedures.

Press Produces Three Books

THREE new books have been produced by the Pennsylvania State University Press.

"Rehabilitation Center Planning, An Architectural Guide" is the title of the book by F. Cuthbert Salmon and his wife Christine F., published last week.

Dr. Henry W. Johnstone, Jr., is the author of "Philosophy and Argument" being published today. He is associate professor of philosophy.

"Jean Giraudoux: His Life and Works" is the product of Dr. Laurent LeSage, professor of Romance Languages. It will appear in May.

Both Salmons are registered architects who were on the Penn State faculty until February of this year when Mr. Salmon was named professor and head of the School of Architecture and Applied Arts at Oklahoma State University. They have worked together on many projects, specializing in the design of buildings for the care of the physically and mentally retarded. The purpose of their book is to present the architect the scope of the problem of rehabilitation and some possible solutions.

A 32-page supplement of plans and programs of rehabilitation centers in the United States and Canada has been published with the guide and it is planned to publish such a supplement annually.

Dr. Johnstone, in his book, presents a study of the role of argumentation in philosophy and of the principles according to which the arguments of philosophers may be evaluated.

Also the author of "Elementary Deductive Logic," published in 1954, Dr. Johnstone has served on the faculty since 1952. His research has been concerned with the nature of philosophical argument.

Dr. LeSage, who is now in France on a Fulbright senior research grant in the preparation of a book on contemporary French literary criticism, has served on the faculty since 1949. He has already published "The Metaphor of Jean Giraudoux" and "Giraudoux and the German Romantics," as well as numerous articles and reviews of French literature and pedagogy.

Shaver Creek Dam Construction Starts

Construction of the Shaver Creek dam in Stone Valley Recreation Area will begin this month. Permit for the dam was received from the Water and Power Resources Board of the State Department of Forests and Waters.

Completion date of the construction is expected in September. The dam will hold back a lake measuring 72 acres in area, 1000 feet wide at the widest point, and 3000 feet long, and with a shore line of two miles.

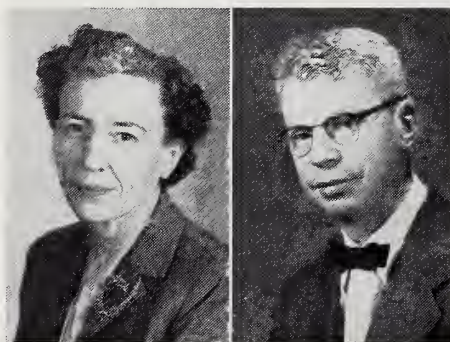
Senate Meets Thursday

The University Senate will meet on Thursday, May 7 at 4:15 p.m. in Room 121, Sparks Building.



Johnstone

LeSage



The Salmons

Aid Urged For Information Center

Public colleges and universities are enrolling an increasing percentage of students while private schools are declining percentage-wise.

Freshman enrollments last fall were the greatest ever in public and private colleges and universities but enrollments in engineering curriculums were at their lowest point since 1954.

A higher percentage of students is going to junior colleges rather than four-year colleges now than in 1948.

These facts are gleaned from informational materials supplied by the American Council of Education's Office of Statistical Information and Research. They are among the types of data being acquired and filed in the office of the department of public information and will be available to all faculty and staff members who can make use of them in papers, speeches, etc.

Mrs. Elinor Chamberlain, Ext. 2191, Room 309 Old Main, is in charge of the service which aims to provide easy access to information not only about Penn State but also from the State and nation.

A summary of activities, by counties, in which the University is actively participating is now available. Faculty members are urged to assist in the development of the service by providing Mrs. Chamberlain with such data as their research and surveys, speeches or papers of particular relation to local areas, and similar information.

Under New Phone System Caller Will Need Number

THE direct dialing phone system which goes into effect in August will be most efficient for the caller seeking to reach the campus if he knows the number of the person on campus and does not need to ask for the operator.

Major difference between the present system and the new one is that all phones, in offices or residence halls, will be reachable directly from the "outside" and will represent, in effect, an individual phone number rather than an extension number.

"Each phone will have a UNiversity exchange number," says Wilbur F. Diehl, manager of telephones for the University, "with the number 5 and four digits; for example, UN 5-2191."

Since the new system will require a completely new number code, faculty and staff members will speed communications with their callers from off-campus points by making sure all persons with whom they communicate have the proper number.

"Otherwise," says Diehl, "there will be irritating delays for the caller. In the absence of the number, the switchboard attendant will refer the caller to the information operator, who will look up the number, then refer it back to the original attendant for dialing."

To aid faculty and staff members inform business associates who are most likely to call them long distance, Diehl's office will supply post cards either

er stamped for mailing or plain for insertion in correspondence, or both.

Today, double post cards are being sent to offices asking phone users to indicate how many of each of these cards they will require. The cards will be made available for mailing on Aug. 3.

"The new numbers," says Diehl, "will not go into effect until 7:01 a.m., Aug. 16, 1959. Until then, anyone attempting to call a UN number will get only a busy signal."

Phone officials estimate that approximately 80 per cent of the phone calls made to the University will come by direct dialing when the system is initiated; within a short period of time, however, it is expected that virtually all incoming calls will be by direct dialing as callers become more familiar with the system.

Calls within the campus, known as in-dial calls, will be made as they are now, except that all numbers will contain five digits.

Items of Interest

• Honors

G. F. Wislicenus, Garfield Thomas Water Tunnel, named Fellow of the American Society of Mechanical Engineers.

• Lectures

James Gemmell, education, the main address at the annual Boss Night, Clear-Penn Chapter, National Secretaries Association, at Clearfield, on "Impressions on a Visit to Russia."

Frederic Will, classical languages, a talk on "Evaluation and Use of Translations at a conference on the teaching and translation of world literature at the University of Wisconsin, last week.

J. B. Dalbor, Romance languages, as a member of panel discussion on the place of laboratories for the teaching of English to foreign students, at the meeting of the Speech Association of the Eastern States.

Michael Chiapetta, education, a talk, "Good Guys and Bad Guys" for the annual meeting of the Pennsylvania Association for Student Teaching at Gettysburg last week.

• Articles and Papers

B. W. Niebel, industrial engineering, an article titled "Why Incentive Wage Payment Spells Success," in "Current Engineering Practice," published by Current Technical Literature Co., Bombay, India.

Nora E. Wittman, German, a paper titled "A Course of Study for the Foreign Language in the Elementary School Teachers," before the 12th University of Kentucky Language Conference.

H. D. Harootunian, history, an article titled "Japan's Relations with Red China," in May issue of "Korean Survey," published by The Korean Research and Information Office.

G. M. Moser, Romance languages, a paper titled "The Character of the Portuguese Language," at the 12th University of Kentucky Foreign Language Conference last week.

Viktor Lowenfeld, art education, an article, "A Forward Look in Art Education," in the latest issue of Midland Schools, official publication of the Iowa State Education Association.

J. A. DeNovo, American history, a paper, "Adlai Stevenson's Sense of History as Revealed in the 1952 Presidential Campaign Speeches," at the 50th anniversary meetings of the Speech Association of the Eastern States.

C. C. Spence, history, an article, "Sir St. George Gore: A Celtic Nimrod in the Old West," in the Spring issue of "Montana, The Magazine of Western History."

Ward M. Sharp, wildlife management, a paper on ruffed grouse at the meeting of the Northeast Section, Wildlife Society of America, at Wheeling, W. Va.

• Elected or Appointed

R. S. Farwell, Jr., industrial engineering, president of the Central Pennsylvania Chapter of the Society for Advancement of Management.

G. R. Hudson, counseling in education, as workshop coordinator of the Pennsylvania School Counselors Association's meetings last week.

A. M. Wellington, counseling in education, as 1960 member of Governing Assembly of the American Personnel and Guidance Association.

R. N. DeVinney, English and speech, Wilkes-Barre Center, as a judge at the 13th National Debate Tournament.

Mycologist To Lecture On Genetics Thursday

Dr. Lindsay S. Olive, professor of botany at Columbia University, will present an illustrated lecture on "Genetics of *Sordaria fimicola*" at 7:30 p.m. on Thursday, May 7, in Room 112, Buckhout Laboratory. The talk is sponsored by Phi Epsilon Phi, national botany honorary society.

A national recognized mycologist, Dr. Olive is known for his work on the cytology and genetics of fungi as well as for his contributions in the fields of fungi taxonomy.

The Need To Close Ranks In Higher Education

(The following is a statement of the Problems and Policies Committee of the American Council on Education, published in February of this year.)

A GREAT and unique strength of American higher education stems from the historic coexistence of strong private institutions and strong public institutions. American society benefits from the maintenance of both types, each at its best. Rivalry among institutions, and between groups of institutions, is healthy when conducted in an atmosphere of mutual respect. But generalizations which attribute qualitative characteristics to institutions simply because they are public or private go beyond the facts. There are strong institutions and weak ones in both groups. Differences among the members within a group are much greater than are differences between the two categories. The strength and value of a college flow from what it is, not from the category to which it belongs. It is as shortsighted as it is false to promote one segment of higher education at the expense of another.

AMERICAN higher education is characterized by great diversity. Its institutions vary strikingly in size, in length and kinds of programs offered, in types of students enrolled, in emphasis on research, in forms of control, and in sources of support. It is an article of our faith, justified by our experience, that this diversity is a source of strength because:

IT provides a rich variety of opportunities for students and for scholars of differing abilities and interests — and America needs many talents trained for many purposes.

IT distributes the management and control of the processes of advanced education and research, and consequently minimizes the chance that a particular pattern could ever be centrally imposed upon the advancement of learning in this country.

IT stimulates healthy experimentation and competition in the development of increasingly effective programs of instruction and research.

THE NATURE of the differences among kinds of institutions can be and has been misrepresented. For example, it is simply not true to say that large institutions inevitably ignore the importance of the individual student; that small institutions necessarily represent quality; that private institutions are for the sons of the rich; that institutional expenditures for good education are any less in a public institution than in a private one; that one kind of American institution is "socialistic," the other not; or that non-church-related institutions are unavoidably "godless." Such false antitheses defeat understanding and jeopardize the honest rivalry which should characterize healthy competition in a shared endeavor.

AMERICAN higher education rests on the two pillars of quality and quantity. If our democratic society is to survive, it must utilize fully the abilities of each new generation. To assure appropriate educational opportunities for students of high academic ability is a vitally important objective but not the only one. Our society must provide opportunities through post-high-school education for the maximum development of people with many kinds and degrees of talent. Our rapidly changing needs for skilled manpower dictate the necessity for more and better education at every level. Both the citizens to be educated and the excellence of the educational process must be the shared concern of all institutions, public and private.

PRIVATE institutions no less than public institutions are by their charters dedicated to the public service. Private institutions receive direct or indirect benefits from tax-supported programs of student aid; many receive state and federal grants for research and other purposes. Most public institutions have income from student fees and individual donations; many receive substantial contributions from industry and philanthropic foundations. Institutions of both types enjoy tax-exemption because of their public purpose. Hence, in terms of financial support, no institution is strictly private or strictly public.

THE TIMES call for a greater investment in higher education as a whole. The crucial issue is not how many dollars come from private sources and how many from public sources but whether or not the total of these dollars will be sufficient to meet the challenges colleges and universities face. The basic choice for the people of our country is between expenditures for higher education and expenditures for other things. Financial support from all available sources must be greatly increased. This objective can be achieved only through vigorous, sustained, and united effort, based upon a deeper general understanding of the purposes and aspirations of American higher education.

Creative Dramatics In Summer Session

A class in creative dramatics for adults and children will be offered in the Summer Session from June 30 to Aug. 7.

There is no fee for children, who must be 9-11 years old. Dr. Walter H. Walters asks, however, that if children are expected to miss some of the sessions, they should not be enrolled, since the work is of such cooperative nature that regular attendance is needed.

Creative dramatics is described as informal drama. For adult students it is the art of guiding children in creative dramatic activity based on stories, pantomime, and experience. For the children it is dynamic play activity. Although considerable attention is given to the fundamentals of theatre, the purpose is not to train children to become actors.

Requests for enrollment of children should be made in writing to the department of theatre arts, Schwab Auditorium, stating the child's age, sex, and expectation of participating regularly.

Calendar

Saturday, May 2

"Iphigenia at Aulis" production by Center Stage Players, 8 p.m.

Varsity golf, versus Pittsburgh, 1 p.m.

Varsity track, versus Ohio State, 1:30 p.m.

Varsity baseball, versus Pennsylvania, 2:30 p.m.

Varsity lacrosse, versus Syracuse, 4 p.m.

Sunday, May 3

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel, Richard Dulin.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Harold K. Schilling, dean of the Graduate School.

Graduate Student Discussion Group meeting, 7:30 p.m., Home Economics Living Center, on "Is Our Religion Becoming Obsolete?"

Monday, May 4

Liberal Arts Lecture by Dr. Jeanne Hersch, distinguished visiting professor of philosophy, 7 p.m., Room 110 Electrical Engineering, on "Berlin Crisis: A Threat to the Federation of Europe."

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Wayne R. Bechdel, administrative head, Extension Conference Center, on "Conducting Conferences on Main Campus."

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A," Dr. E. R. Fitzgerald, Associate professor of physics, on "Viscoelastic Properties of Solids."

Tuesday, May 5

Joint meeting, American Society of Mechanical Engineers and American Rocket Society, 7:30 p.m., Room 219 Electrical Engineering Building. John Bohuslaw, Missile and Space Vehicle Department, General Electric Co., on "Travel Tips for Space Astronauts."

Physics Colloquium, 4:15 p.m., Room 117 Osmond Laboratory. Dr. E. M. Hafner, department of physics and astronomy, University of Rochester, on "Gamma Ray Astronomy."

Economics Faculty Seminar, 12 noon, dining room "A," Hetzel Union Building. Dr. J. J. Kaufman, associate professor of economics, on "Depressed Areas of Pennsylvania."

Engineering Lecture by Col. M. G. Bekker, chief of Land Locomotion Laboratory, Detroit Arsenal, 8 p.m., Room 105 Mechanical Engineering, on "Land Locomotion Mechanics, A New Engineering Activity."

Home Economics Seminar, 12:30 p.m., dining room "A," Hetzel Union Building. Fourth in a series sponsored by Home Economics Coordination of Research Committee. Dr. Ruth L. Pike, associate professor of foods and nutrition, on "Vitamin B-6 and Protein Metabolism During Pregnancy."

Thursday, May 7

Lecture by Percival F. Brundage, former director of Budget Bureau, 3:15 p.m., HUB assembly room, on "Sound Budgeting," sponsored by department of political science.

Phi Epsilon Phi lecture by Dr. Lindsay S. Olive, professor of botany, Columbia University, 7:30 p.m., Room 112 Buckhout Laboratory, on "Genetics of Sordaria Fimicola."

Liberal Arts Lecture by Charles J. Woodsworth, consul of the Canadian Consulate General, New York City, 8 p.m., Room 214, Boucke building, on "The New Canada," with film.

University Senate meeting, 4:15 p.m., Room 121, Sparks Building.

Concert by Women's Recreation Association dance group, 8 p.m., White Hall.

Vesper Service, 4:15 p.m., Helen Eakin Eisenhower Chapel. Interpretive styles of church music.

Players production of "The Boy Friend," 8 p.m., Schwab Auditorium.

Friday, May 8

Mineral Industries Colloquium, 4:15 p.m., Room 24, Mineral Sciences Building. Mr. Harry Perry, chief, Bituminous Coal Research, U. S. Bureau of Mines, on "The Current Economics of Producing Synthetic Fuels From Coal."

Players production of "The Boy Friend," Schwab Auditorium, 8 p.m.

Air ROTC Programs

Curtailed At Centers

Air Force R.O.T.C. programs at the Hazleton and Altoona campuses will be discontinued July 1 for economic and educational reasons. Neither program has produced the expected officer material.

Zoller, Sabeen, Frost Exhibit In S. Carolina

Edwin W. Zoller, professor of art, Samuel C. Sabeen, associate professor, and Stuart H. Frost, instructor, are currently exhibiting paintings in the Second Columbia Painting Biennial in Columbia, S.C.

Zoller is showing an oil, Sabeen a mixed media of plastic paint and paper collage, and Frost a watercolor. A total of 141 paintings was selected by the jury for hanging. The exhibition will continue until May 10.

Pi Gamma Mu Banquet

Members of Pi Gamma Mu, national social science honorary, are invited to attend the annual initiation banquet on Tuesday, May 5, at 6:30 p.m. in Dining Room "A," Hetzel Union Building. Tickets may be obtained from Mrs. Ilene Glenn, 117 Sparks Building, before May 1 at 3 p.m. They are priced at \$2.50.

Canadian Consul To Lecture Thursday

Charles J. Woodsworth, consul of the Canadian Consulate General in New York City, will speak on "The New Canada," on Thursday, May 7 at 8 p.m. in Room 214 Boucke.

The talk is sponsored by the College of the Liberal Arts, the Social Science Research Center, and the department of sociology and anthropology.

A leading Canadian journalist before he entered the diplomatic service, Mr. Woodsworth obtained his doctor of philosophy degree in Far Eastern affairs from the London School of Economics. During World War II he spent 18 months in India for the British Minister of Information. He has also served as Canadian representative to several international conferences.

Mr. Woodsworth will discuss recent Canadian relations with the United States, with special emphasis on development programs such as the St. Lawrence Seaway. Films will be shown.

Williams Gets Fellowship

Arthur L. Williams, instructor in insurance, has been awarded a \$1,650 summer fellowship by the New York Life Insurance Co. to enable him to continue his research study on the term buyer. The grant is part of the company's financial assistant program to promote insurance education and research.

Foreign Travel Approval

Under a policy adopted in February, holders of Public Health Service research grants may now use such grants for foreign travel if the University determines that travel is necessary to the successful prosecution of the research project. Heretofore, approval by the Public Health Service was required. The new policy does not apply to holders of training grants.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

May 10—Dr. Luther Harshbarger, University chaplain.

May 17—Dr. Joseph Sittler, University of Chicago.

May 24—Dr. Edmund A. Steimle, of Philadelphia.

May 31—Dr. Luther H. Harshbarger, University chaplain.

CONCERTS

May 7-9—Spring Dance Concert WRA, at White Hall.

May 10—Glee Club Concert, 3 p.m.

May 14—Chapel Choir Spring Concert

May 17—Meditation Chapel Choir Concert

May 24—Blue Band Concert.

LECTURES

May 13—Social Science Research Center lecture by Dr. Robin M. Williams, Cornell University.

May 23—Distinguished Lecture in Philosophy by Dr. Charles Hartshorne, Emory University, on "Mind as Memory and Love."

Armed Forces Day Plans Announced

Armed Forces Day observance locally will include the annual community parade at 7 p.m. on Thursday, May 14; an open house program at the Hetzel Union Building May 12 to 14; and window displays arranged with the cooperation of borough businessmen for May 11 to 16.

Burgess Roy D. Anthony is chairman of the General Committee.

Players Stage Broadway Show

The popular musical comedy "The Boy Friend" by Sandy Wilson will be the next Players Production at Schwab Auditorium on May 7, 8, and 9, at 8 p.m.

Robert D. Reifsneider, associate professor of theatre arts, is director of the show. "The Boy Friend" is currently playing its third year at an off-Broadway theatre. It is a spoof of the Roaring Twenties and the play revolves around the attempts of a 17-year-old girl to catch and hold a man.

Lecture On Locomotion

A lecture of interest and open to all members of the engineering profession will be given by Col. M. G. Bekker, chief of the Land Locomotion Laboratory, Detroit Arsenal, on Tuesday, May 5 at 8 p.m. in Room 105 Mechanical Engineering.

The lecture is titled "Land Locomotion Mechanics, A New Engineering Activity."

Loans Still Being Made

Applications for student loans under Title 2 of the National Defense Education Act are being received in the office of the dean of men.

Loans made here have already totalled \$16,000 under this Act, which emphasizes prospective teachers and those who indicate superior capacity in science, mathematics, engineering, or a modern foreign language.

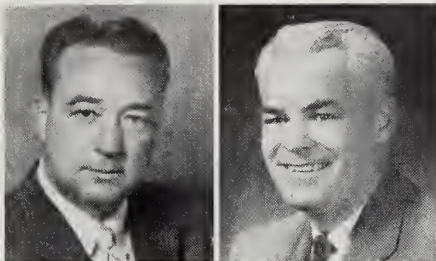
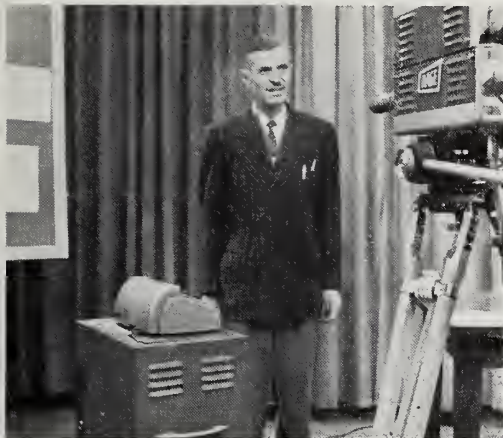
Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

46/30

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.



Dr. A. H. Reede, left, enjoyed the unusual experience last week of connecting his class in economics via telephone to the men of labor and industry above, C. B. Newell, USW representative in Bethlehem, and A. B. Walton, personnel director of Owens Corning Co.

Telephone Hookup Adds New Class Dimension

THE telephone has taken on a new dimension for both Dr. M. Nelson McGeary, professor and head of the department of political science, and Dr. Arthur H. Reede, professor of economics.

In several experimental phone hookups, Dr. McGeary and Dr. Reede have made available to their classes direct discussions via the phone with important men in their respective fields.

Dr. Reede's phone discussions have taken on added distinction in that they were connected with the communication system in Boucke Building which links classrooms with the closed-circuit television system. Through "talk back" facilities (speakers and microphones in the room) the students in 14 classrooms were able to talk with Dr. Reede and also the person on the other end of the long-distance phone line.

Dr. McGeary has had connections with Senator Jo Hays of Centre County, and Senator Robert Fleming, of Allegheny County, for his class in Pennsylvania Government. Students were permitted to ask questions of importance in current events, and the senators answered freely.

Dr. Reede's first phono-television hookup was made with A. Allen Sulcove, executive director of the Penn-

sylvania Bureau of Employment Security, and his two assistants. In this case Dr. Reede asked questions of Mr. Sulcove for the entire period, with the class eavesdropping. The closed-circuit television system carried a picture arranged by Dr. Reede of charts and information in the field of employment.

The second call was put through last week, with C. B. Newell, District 9 director of the United Steelworkers of America speaking from Bethlehem, Pa., and A. B. Walton, personnel director of the Huntingdon, Pa., plant of the Owens Corning Fiberglas Corporation, talking from Huntingdon. All parties could hear and talk to all other parties on the connections. Students participated by talk-back systems in the 10 classrooms connected.

Both Dr. Reede and Dr. McGeary were well pleased with the early results

of the phone hookups, expressing the opinion that their classes were nearly as effective as if the "visitors" had been in class personally.

"There is real value in having the information come directly from a 'firing-line' source," says Dr. Reede. "Moreover, the students ask searching questions which the interviewee was quite willing to answer."

"As long as the person on the other end of the line," says Dr. McGeary, "understands that the phone conversations are not being recorded, he doesn't seem to hesitate to answer our questions."

Costs of the long distance calls are moderate, especially in comparison with costs involved in bringing a person to the campus. For Dr. McGeary's call to Sen. Fleming, the charges amounted to \$3.15 for 20 minutes; for the 50-minute "conference call" between Dr. Reede, Mr. Newell, and Mr. Walton, the charge was \$18.90 plus tax.

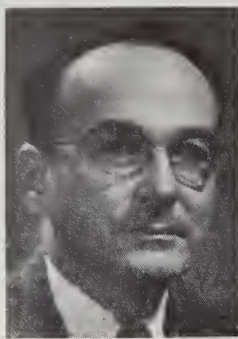
"In addition to low cost," points out Dr. Reede, "the system is advantageous in getting men who are otherwise too busy to take time out for a trip here."

Bell Telephone Co. of Pennsylvania officials cooperated in the experiment. Similar use has been made of telephone lines at other universities, but Penn State's experience is believed unique in connecting the calls to closed circuit television with "talkback facilities."

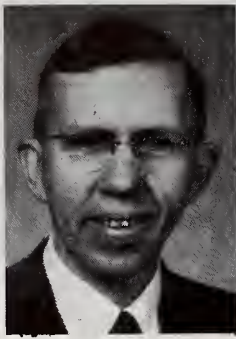
Forensic Activities Taken On By University

The University will accept responsibility for the forensic program of The Pennsylvania Forensic and Music League, effective immediately. The League since its inception has fostered competition among high school individuals and groups on the county, district, and State level. Forensic competition has embraced debate, declamation, poetry, one-act plays, and radio speech.

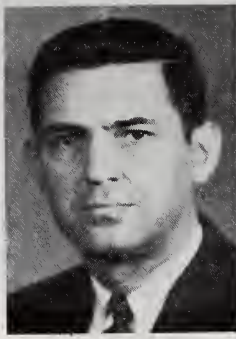
The program will be placed under the supervision of H. William Simington, instructor of English and speech at the McKeesport campus who will transfer to the University Park campus as instructor in speech.



Goas



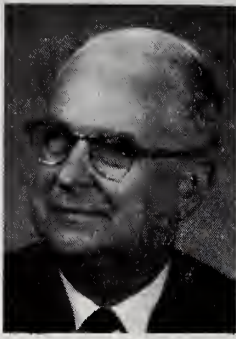
Pyle



Benner



Fischer



Rung



Beaver

Administrators Named For Continuing Education Work

T. Stewart Goas and Floyd B. Fischer have been named to administrative posts in Continuing Education as part of the organizational realignment instituted at the University to facilitate orientation of these services with the newly-integrated System of Commonwealth Campuses.

Goas, in his new role, will serve as associate director for instruction. Fischer will carry the same title in administration.

Upon Goas will rest the responsibility of coordinating the instructional phases of the various programs and services offered by Continuing Education while Fischer will be responsible for the organization, development and operation of these programs and services on a state-wide basis.

These men will be responsible to the director of Continuing Education, E. L. Keller, and will act as consultants to an administrative committee headed by Keller which will be responsible for the development and maintenance of effective University-wide procedures.

Assistant Directors Named

In companion moves, Thomas J. Rung was named assistant director for formal instruction; Hugh G. Pyle, assistant director for informal instruction; and Paul S. Beaver, assistant director for special services.

Paul E. Benner was named business manager.

Thomas Hammonds will continue as editor, in charge of information services, and Wayne R. Bechdel will assume the title of director of the Continuing Education Conference Center.

Newly-appointed directors of the Campuses will maintain liaison with Continuing Education through regional directors and district administrators who will operate throughout the State in the promotion of formal and informal instruction and special services.

Kenneth L. Holderman, newly-appointed coordinator of Commonwealth Campuses, said the Campuses will co-operate with Continuing Education in the advancement of these programs and services, and also will make available their physical facilities to Continuing Education for these purposes.

Goas, a 1931 graduate of the University, with a master of arts degree in

1933, has been associated with Penn State since graduation. He was administrative head of the Pottsville Center from 1942 to 1949 and has been in charge of undergraduate study in General Extension since 1949.

Fischer graduated with a bachelor of science degree in agricultural and biological chemistry in 1937. He has held various positions in General Extension since 1941; since 1954, he has been in charge of the division of information and development.

Rung was graduated in 1931 with a B.A. degree and in 1940 received the master of science degree from Penn State. After working for three years for the U. S. Rubber Company following graduation, he joined the staff here and has been in charge of terminal study from 1950 to the present.

Pyle has been a staff member since 1925, the year he obtained the degree of bachelor of arts from Penn State. In 1930 he obtained the M.A. degree. In 1931 he was named assistant professor of economics in extension and from 1934 to 1952 was supervisor of informal instruction. He has been in charge of this work since and in 1958 was named associate director of the Center for Continuing Liberal Education.

Beaver is a graduate of Bucknell University, obtaining a masters degree from Penn State in 1941. After service in the educational fields of public schools, colleges, and industry, he joined the Penn State staff in 1946. He is currently associate professor of management in extension and head of the management training department.

Benner obtained the bachelor of arts degree in commerce and finance in 1938 from Penn State. He held various positions in the office of the bursar until 1956, when he was named administrative assistant, division of business and records, General Extension.

Campbell, Hedden Get New Positions

Merle E. Campbell has been named dean of student affairs for Commonwealth Campuses and Norwood A. Hedden, head of the new division of Commonwealth Campus maintenance.

Campbell will be attached to the staff of Dr. R. G. Bernreuter, special assistant to the president for student affairs, and dean of admissions and registrar. He will be responsible for the integration of student affairs on the various commonwealth campuses.

A graduate of Penn State in fine arts in 1938, Campbell joined the staff in September, 1939, as instructor in fine arts and engineering drawing at the DuBois Center. He transferred to the main campus in 1942 as assistant to the



Campbell



Hedden

director of arts and science extension. Aside from a period of 18 months during the war when he was affiliated with the engineering department of Dresser Industries, Campbell has been with General Extension in various capacities, in his last position being in charge of the division of center administration.

Hedden will assume his new responsibilities on July 1, with responsibility for maintenance, including grounds, buildings, utilities, and custodial services, at the centers and campuses throughout the State. The new division will be under the direction of the department of maintenance and utilities, headed by Henry L. Yeagley, Jr.

A 1930 graduate of the University, Hedden has served on the faculty and administrative staff since graduation, first as instructor in engineering extension, later as district representative, area supervisor, supervisor of extramural class instruction, and finally as head of the division of business and records.

Items of Interest

• Articles and Papers

Kent Forster, history, an article in April, 1959, issue of *The French Review*, titled "Stability versus Instability in the Third Republic, 1894-1914."

Monroe Newman, economics, an article titled "Joint Administration of Social Insurance Programs," in the February issue of "The Journal of Insurance."

P. E. Shields, electrical engineering, a paper titled "The Role of an AC Network Calculator in the Electrical Engineering Curriculum at the Pennsylvania State University" at the IRE 7th Region Conference and Electronics Exhibit, today in New Mexico.

M. E. Williamson, engineering and architecture, a paper on "Stepping Into Management," before the National Institute of Ceramic Engineers on May 17.

• Lectures and Talks

P. D. Krynine, mineralogy, a lecture titled "Re-evaluation of Petroleum Geology," before the geology department, Harvard University, on May 5.

H. S. Brown, education, on "General Education," before the Lock Haven State Teachers College faculty.

Mary Brown Allgood, home economics, on "Demonstration Techniques" before American Lamb Institute meeting, on May 5.

A. J. Mastro, accounting, on "The Interpretation of Reports to Management," at the meeting of the York Purchasing Agents Association's course in Procurement Management.

• Elected or Appointed

M. D. Richards, management, on Board of Directors and chairman of the Membership Committee of the Academy of Management.

A. B. Draper, industrial engineering, as a member of the Basic Concepts Committee, American Foundry Society's Sand Division.

• The Arts

Kenneth Beittel, art education, exhibited several pieces of ceramics, at 14th National Decorative Arts-Ceramics Exhibition, at Wichita, Kansas.

Vehicle Laws Apply To Bicycles, Scooters

Pennsylvania motor vehicle laws cover not only automobiles and trucks but also bicycles, motorcycles, and motor scooters as well. E. F. Olver, director of the security division, reminds.

With the increase in vehicles on campus strict observance of the vehicle laws is imperative, Olver adds. Anyone wishing a copy of the rules applicable to the campus may obtain it from the office of the Campus Patrol, Ext. 425.

Cricket Club Seeks Members Among Faculty

FACULTY members, including graduate students, looking for a leisurely sport with a reasonable amount of exercise are recommended to cricket by Dr. Robert D. McCammon, visiting research associate in physics.

McCammon is currently captain of the Wayfarers Cricket Club team, composed of faculty members, students, and townspeople. Many of the present members are graduate students, some of whom have had prior experience in the sport. A number of American students have successfully tried their hand at the game.

Presently making an appeal for recruits, partially to continue the activity over the summer, the Wayfarers are confident that if more faculty members were familiar with the game they would find it enjoyable. Age is no barrier to participation, except that a certain amount of manual dexterity and coordination is needed.

"There are occasions," McCammon describes, "when you might pleasantly lie around with nothing to do except watch for hours at a time."

On the rolls at present are Dr. John G. Aston, director of the Low Temperature Laboratory; Dr. Louis Dupree, associate professor of anthropology; and Dr. Rustum Roy, professor of geochemistry, in addition to McCammon.

The Club meets at 2 p.m. every Saturday and Sunday at the State College Airport west of town, where a cricket field has been set up on the cross runway, through the courtesy of Sherm Lutz, airport owner. Only if the wind shifts to require planes to take off and land on the north and south axis are games suspended.

Scheduled games generally last until 7 p.m., with time out for tea to refresh the players, but practice sessions end at 4:30 p.m. In championship matches throughout the world games may last for several days.

Although possessing elements in some respects similar to baseball (or vice versa, more likely), cricket differs considerably from the American pastime with respect to the scoring and the work of any one batsman. In cricket, a batsman may, if he is successful, remain at the wicket for several hours and score hundreds of runs. Under such circumstances physical conditioning can be important.

On May 30 the Club will journey to Washington, D. C. for a match with members of the British Embassy staff. Although time is somewhat limited now for any newcomers to become skilled enough to compete in such fast company, McCammon would be happy to have faculty members or townspeople call him for more information.

Leader's Papers Given To Library

The personal papers, relating to his term of office, of former Gov. George M. Leader, were transferred this week to the Pattee Library on main campus.

Mr. Leader explained that the papers were moved from the sub-basement of the Capitol for safe-keeping and to aid research in problems of state government and public administration, adding that "I hope this move will promote and encourage the cause of better state government."

A six-man board of trustees will determine who may have access to the papers, under terms of the agreement between the former governor and the University. The board will also establish rules and regulations governing the use of the papers.

Ralph W. McComb, University librarian, was named chairman of the board of trustees. Dr. S. K. Stevens, director of the Pennsylvania Historical Commission and Museum, will be an ex-officio member. Dr. M. Nelson McGeary, head of the department of political science, and Dr. Philip S. Klein, professor of American history, were named by President Walker to the board.

Mr. Leader named to the board Dr. John H. Ferguson, former secretary of administration and budget secretary and now professor of political science, and Dr. Stephen B. Sweeney, director of the Fels Institute of Local and State Government at the University of Pennsylvania.

The agreement stipulated that the papers may be returned to Harrisburg after ten years for deposit with the Pennsylvania Historical Commission and Museum provided the new William Penn Memorial Building is available at that time and that all parties agree to the move.

Grucci Establishes Award For Poetry

Joseph L. Grucci, associate professor of English composition, has established an award in memory of his brother, Anthony James Grucci, to be given to the undergraduate submitting the best poem or group of poems. The award of \$25 will be given annually.

Grucci directs the Poetry Workshop, which annually publishes *Pivot*, the magazine of verse.

Pivot, now on a self-sustaining basis, is recognized nationally for the excellence of its contents. Its circulation now tops the 1,000 mark and is known to teachers in more than 200 colleges and universities.

The Spring issue, at 25 cents per copy, went on sale this week.

PBK Members Sought

Members of Phi Beta Kappa who are not yet on the rolls of the Penn State chapter are invited to send their names and address to the secretary, Catherine Carter, 210 Pattee Library.

Calendar

Friday, May 8

Mineral Industries Colloquium, 4:15 p.m., Room 24, Mineral Sciences Building. Mr. Harry Perry, chief, Bituminous Coal Research, U. S. Bureau of Mines, on "The Current Economics of Producing Synthetic Fuels From Coal." Players production of "The Boy Friend," Schwab Auditorium, 8 p.m.

Saturday, May 9

Players production of "Iphigenia at Aulis," 8 p.m., Center Stage.
Graduate Student Association square dance, Hillel Foundation, 8:30 p.m., Graduate students and faculty members invited.
Varsity track, versus Michigan State, 1:30 p.m.
Varsity tennis, versus Syracuse, 2 p.m.
May Day festival, 3:30 p.m., in front of Old Main.
Orchestra Modern Dance Concert, 8 p.m., White Hall.
Penn State Players production of "The Boy Friend," 8 p.m., Schwab Auditorium.
Pi Mu Epsilon dinner, 6:30 p.m., HUB Dining Room. Dr. Vladimir Vand, associate professor of physics, speaker.

Sunday, May 10

Roman Catholic Mass, 9 a.m., Schwab Auditorium.
Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Miss Genevieve Dilts.
Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Luther H. Harshbarger, University chaplain.
Glee Club concert, 3 p.m., Schwab Auditorium.
Tri-Service Drill meet, 2 p.m., Beaver Field.
School of the Arts reception, 3-5 p.m., HUB main lounge.

Monday, May 11

Lecture by Percival F. Brundage, former director of Budget Bureau, 3:15 p.m., HUB assembly room, on "Sound Budgeting," sponsored by department of political science.
Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A". Dr. E. R. Fitzgerald, associate professor of physics, on "Mechanical Resonance Dispersion in Solids."
American Statistical Association meeting, 5 p.m., Room 201 Willard Building. Dr. D. T. Laird, on "Monte Carlo Methods."
Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Thomas D. Clark, visiting distinguished professor of history, on "The Role of a Press in a University."
Graduate Mining Seminar, 3:30 p.m., Room 24, Mineral Industries. M. M. Singh, on "Sampling Methods in Drilling."
Mathematics Colloquium, 7:30 p.m., Room 5, Pattee Library. Dr. S. A. Amitsur, on "Abstract Elementary Prime Number Theorems."
Discussion of Dead Sea Scrolls, 4:15 p.m., Rooms 311 and 314 Boucke Building (closed circuit television) by Dr. Frederick R. Matson.

Tuesday, May 12

Lecture by Percival F. Brundage, former director of Budget Bureau, at weekly Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building, on "Sound Budgeting," co-sponsored by the department of political science.
Biological Sciences Colloquium, 4:15 p.m., Room 111, Boucke Building. Dr. Alvin Nason, professor of biology, The Johns Hopkins University, on "The Role of Tocopherol at the Enzymatic Level."

Wednesday, May 13

American Chemical Society meeting, 8 p.m., Room 119, Osmond Laboratory. Dr. Herbert C. Brown, professor of chemistry, Purdue University, on "Selective Reductions."
Social Science Research Center meeting, 8 p.m., Room 121, Sparks Building. Dr. Robin M. Williams, department of sociology and anthropology, Cornell University, on "Attitudes and Values in the College Student's Sub-Culture."

Varsity baseball, versus Lehigh, 3:30 p.m.
Discussion of Dead Sea Scrolls, 4:15 p.m., Boucke Building, by Rabbi Benjamin Kahn.

Thursday, May 14

Armed Forces Day parade, 7 p.m. Open House at National Guard Armory, north campus, all day.
Spring Concert of the University Chapel Choir, with the University Symphony Orchestra, 8:30 p.m., Schwab Auditorium, in Brahms' "A German Requiem."

Friday, May 15

Artists Series program by E. E. Cummings, 8:30 p.m., Schwab Auditorium.
Mineral Industries Colloquium, 4:15 p.m., Room 24, Mineral Sciences. Dr. Ulf Langers, physicist, Nitroglycerin Aktiebolaget, Stockholm, Sweden, on "Breakage and Moving of the Rock."
Fluid Mechanics Seminar, 4:15 p.m., Room 105, Mechanical Engineering. Dr. Theodore von Karman, chairman, advisory group for aeronautical research and development, to NATO, on "Magnetohydrodynamics."
Lecture by Dr. Theodore von Karman, chairman, advisory group for aeronautical research and development to NATO, 8:15 p.m., Room 24, Mineral Sciences, on "Problems of Modern Engineering Education," sponsored by the College of Engineering and Architecture.

Four Faculty Members Get Grants For Further Study

Dr. Norman Davids, professor of engineering mechanics, has been awarded a Fulbright grant for the academic year 1959-60 to engage in research at the Technion, Israel Institute of Technology at Haifa, Israel.

His studies will be in the fields of stress-wave propagation in materials and penetration mechanics.

Dr. Roy B. Helfgott, assistant professor of economics, has been awarded a fellowship to the 1959 Summer Training Institute in Social Gerontology to be held at Berkeley, California.

Dr. Jerry Stannard, instructor in philosophy, has been awarded a \$500 grant-in-aid to attend the Third East-West Philosophers' Conference. The conference, held once in a decade will convene at the University of Hawaii from June 22 to Aug. 2.

Louis W. Balmer, assistant professor of chemistry at the Behrend Campus, has received a National Science Foundation award providing nine weeks of study at Iowa State College, in a program which will include research on the use of various organic free agents to determine the presence of small quantities of iron salts in solution.

Mother's Day Weekend Has Variety Of Events

A wide variety of activities will feature Mothers Day Weekend on campus with the traditional May Day Festival on front campus at 3:30 p.m. tomorrow as the main event.

Art exhibits, at the HUB Gallery, TUB Gallery, and the Redifer Hall Gallery, will be held both Saturday and Sunday, May 9 and 10. The annual Dairy Exposition will be held at the Livestock Judging Pavilion tomorrow until 3:30 p.m.

The Tri-Service Drill Meet will be held at 2 p.m. on Beaver Field on Sunday. At 3 p.m., the annual Glee Club Concert for Mother's Day will be held in Schwab Auditorium. A reception by the School of the Arts will be held in the HUB main lounge from 3 to 5 p.m.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

May 17—Dr. Joseph Sittler, University of Chicago.
May 24—Dr. Edmund A. Steimle, of Philadelphia.
May 31—Dr. Luther H. Harshbarger, University chaplain.

CONCERTS

May 17—Meditation Chapel Choir Concert
May 24—Blue Band Concert.

LECTURES

May 23—Distinguished Lecture in Philosophy by Dr. Charles Hartshorne, Emory University, on "Mind as Memory and Love."

CALENDAR

June 6—Commencement
June 11-13—Alumni Homecoming

Chapel Choir To Give Spring Concert Thursday

The 12th annual choral event will be presented by the University Chapel Choir with the University Symphony Orchestra on Thursday, May 14, at 8:30 p.m. in Schwab Auditorium.

Johannes Brahms' "A German Requiem" has been selected for the concert on the occasion of the 90th anniversary of the second premiere of the work in Bremen, Germany.

Raymond Brown, assistant professor of music, will be one of the soloists.

Rierner Paper Sent Abroad

An article by Dr. Neal Rierner, associate professor of political science, titled "Two Conceptions of the Genius of American Politics," has been selected for distribution abroad by the U.S. Information Agency. The article, originally published in the Nov., 1958, issue of "The Journal of Politics," was reprinted and sent to 61 U.S. Information offices overseas.

Talent Directory Set

A talent directory has been established to provide a service to groups and individuals arranging social programs. Students and others having talent in any field suitable for entertainment are requested to register for the directory at the HUB desk. The registration will remain on file and be available to anyone on campus or in the community interested in employing an entertainer.

Dr. Margenau Available

Dr. Henry Margenau, distinguished visiting professor of physical and engineering sciences, will be available to meet with faculty groups and to lecture in undergraduate classes when he is next on campus, from Wednesday, May 20, to Saturday, May 23. Arrangements for such meetings may be made by calling E. B. Staveland, associate dean of the College of Engineering and Architecture, Room 204 Sackett Building.

During his visit Dr. Margenau will present several public lectures.

Cummings Tickets On Sale At HUB

Tickets for the Artists Series presentation by E. E. Cummings, poet and artist, on May 15 will be distributed to the general public on Wednesday and Thursday, May 13 and 14 at the Hetzel Union Building main desk. Students will obtain tickets on May 12.

The performance will be given at 8:30 p.m. in Schwab Auditorium.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Leadership Needed Locally In State's Depressed Areas

THE development of chronic areas of unemployment in Pennsylvania has created great problems for the State and one of the gravest aspects of the situation is the depletion of leadership in the communities affected.

So says Dr. Jacob J. Kaufman, associate professor of economics, who discussed "Depressed Areas of Pennsylvania" before the Economics Faculty Seminar this week.

"An estimated 100,000 men and women are on the 'chronically unemployed' list," Dr. Kaufman says, "out of a total of 500,000 currently unemployed."

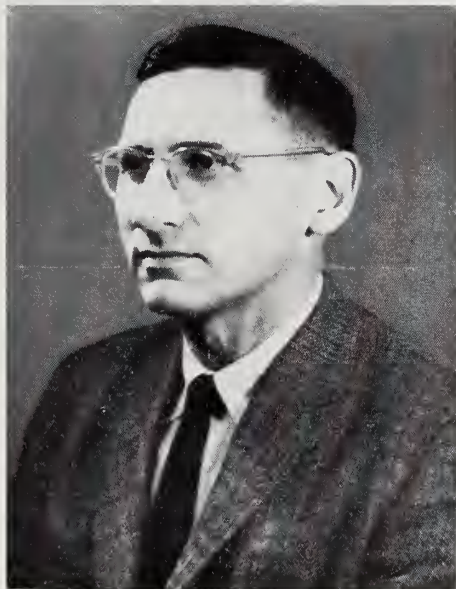
"Of those chronically unemployed, 60 per cent live in the areas we label as depressed areas."

"Unfortunately, although we know a great deal about the statistics of the unemployment picture, we know relatively little about the people themselves."

There are 12 chronic unemployment areas in the State, ranging from the northeast to the southwest corners of Pennsylvania, as well as Erie County. They cover 17 counties and include in addition to Erie, Altoona, Johnstown, Scranton, Wilkes-Barre-Hazleton, Berwick-Bloomsburg, Clearfield-DuBois, Lewistown, Lock Haven, Pottsville, Sunbury-Shamokin-Mt. Carmel, and Uniontown-Connellsville.

"Basically," says Dr. Kaufman, "the decline of three major industries has resulted in these unemployment problems: coal, railroad, and textiles. Erie's condition has resulted from an overextension during the war and a reduction in hardgoods production."

Dr. Kaufman has been involved in a study of the State's chronic unemployment problem for more than a year with Helmut J. Goltz, assistant professor of industrial relations. The study included, along with statistical information on chronic unemployment, such matters as the mobility of labor in the State, efforts of various communities to solve their chronic unemployment problems, effects of various Federal and State acts on the subject, retraining of



Dr. J. J. Kaufman

the unemployed, and various other topics.

The statistical information reveals that although the State as a whole had an unemployment figure of 10 per cent of the total civilian labor force as of Nov. 15, 1958 (now at 9 per cent) some of the "chronic" areas were much higher, ranging up to 24 per cent in the Uniontown-Connellsville area.

"We cannot use average figures for the State," says Dr. Kaufman, "to decide what courses of action we must take. Each of these areas has problems of its own."

The Altoona problem stems from the reliance of the community for genera-

tions on the Pennsylvania R. R. car shops. Decline of P.R.R. business along with dieselization of equipment has resulted in a drop in the total labor force on the entire system from 237,000 employees in 1923 to 99,000 in 1957.

On the other hand, the Bloomsburg-Berwick labor market, which shows a labor force of about 21,000 in food, metals, and textiles has seen a steadily rising unemployment statistic, principally in the manufacturing fields.

Another chronic area is Erie, where unemployment in the early part of 1959 remains at 13 per cent. During the 'forties, Erie underwent a phenomenal population growth and the growth was retained after the war. The labor force, therefore, is considerably larger than it was before the war.

Part of Erie's problems stem from the type of industry dominant there, industry extremely sensitive to changes in the business cycle which reflect in sharp employment fluctuations. A radical alteration in the durable goods manufacture has left a large number of female workers in the surplus labor category.

One of the more difficult problems in the State exists in the Uniontown-Connellsville area, where declines in total population and labor force and the aging of the population are all significant. Unemployment has risen to 25 per cent of the labor force at times, highest in the State.

Both mining and manufacture have fallen off in this area, and total employment has declined from 48,500 in 1951 to 36,600 in 1958. Mining and quarrying accounted for nearly all of this decline.

The Wilkes-Barre-Hazleton area in the anthracite region shows the effects of the changes in the coal mining industry. Luzerne County, says Dr. Kaufman, has been losing population steadily, primarily young people; consequently the proportion of older people is increasing sharply. Also, the labor force shows an increasing percentage of women, who in 1955 held almost half of the jobs available. Within the past eight years about two-thirds of the

(Continued on page three)

Penn State Collection.
Pattee Library.

Penn State Collection

New Research Center Would Aid Atmospheric Research

METEOROLOGISTS are convinced that the real key to further progress in their field lies in the new University Corporation for Atmospheric Research, of which Penn State is a charter member.

"We have been pecking away at the fringes of our problems so far," say Dr. Hans Neuberger, head of the department of meteorology. "Some progress has been made that way but the problems are too big and complex to be solved on anything but a nationwide scale."

The Corporation was formed in March with 13 universities as corporation members. Its immediate goal is the establishment of a National Institute for Atmospheric Research which over the six-year period from 1960 through 1965 will require \$70,000,000 for capital and operating expenses.

Meteorologists generally, and the U. S. Weather Bureau in particular, have been hampered in their research studies by the ever-present problem of forecasting the weather. As vital as these forecasts are, there has been little time and effort and money to develop the basic knowledge to improve the forecasts.

"The most logical way to bring about this improvement," says Dr. Neuberger, "seems to be the drawing together of the top talents not only among meteorologists but also among physicists, chemists, and other scientists, with the necessary facilities, to tackle the problems on a very large scale. That's the reason for the Institute."

Even without major emphasis on research in the past, however, meteorologists have given great return for the little money invested in their field in the past, Dr. Neuberger argues.

"If we are to give better service, in the way of forecasting and eventually, limited weather control," Dr. Neuberger says, "we will have to develop a better understanding of all the forces acting to make our weather."

Considering alone the matter of motion in the atmosphere, Dr. Neuberger points out that air moves in eddies ranging from a very small to a hemispheric scale. The manpower needed to set up and solve the equations involving all the factors producing air motion would be tremendous and so the help of mathematicians is desirable. Chemists can help with the chemical interferences of cloud processes; engineers should be able to aid in making better systems for measurements of atmospheric properties.

"Air motion," Dr. Neuberger adds, "is only one of the many large problems to be solved."

The immensity of the project is too much for any single university or private firm to cope with alone; hence the cooperative effort of 13 universities. Financial help is expected from the Federal Government since probably only that agency could finance it. Funds, however, will be sought from private as well as other public sources. For



Dr. Hans Neuberger
The Problems Are Complex

example, the Alfred Sloan Foundation has already contributed funds for a substantial graduate fellowship program during the coming academic year.

Some of the research to be done would not have been possible 20 years ago, before the advent of the "electronic brain." The Institute is expected to be equipped with computer facilities that few universities could match or use on atmospheric research exclusively.

"There are so many computations to be made," says Dr. Neuberger, "that it would keep a complete computer set-up busy all day, nearly every day of the year."

In addition to the mechanical facilities required, manpower is in short supply also. Although many young men were trained in meteorology during the war, and many hundreds since then, there are so many jobs to be filled that there aren't enough men left over for advanced research work.

"A great number of trained meteorologists is needed," says Dr. Neuberger, "but the Institute expects to attract the more qualified among those who would like the finest research facilities and the challenge this work would give them. I don't doubt, however, that the various universities might have a problem competing with the Institute for staff members, at least at the beginning until more scientific manpower has been developed."

The National Science Foundation is

already quite interested in this joint effort of the 13 universities, most of which offer doctorate degree work in meteorology. In addition to Penn State the roster includes the universities of Johns Hopkins, Wisconsin, Chicago, New York, Michigan, Arizona, California (L.A.), Cornell, St. Louis, M.I.T., Florida State, and Texas A. and M. The group gave four basic reasons for urging the establishment of a National Institute:

1. The need to mount an attack on the fundamental atmospheric problems on a scale commensurate with their global nature and importance.

2. The fact that the extent of such an attack requires facilities and technological assistance beyond those that can properly be made available at individual universities.

3. The fact that the difficulties of the problems are such that they require the best talents from various disciplines to be applied to them in a coordinated fashion, on a scale not feasible in a university department.

4. The fact that such an institute offers the possibility of preserving the natural alliance of research and education without unbalancing the university programs.

Dr. Neuberger, who is a member of the Board of Trustees of the University Corporation for Atmospheric Research, is of the opinion that the Institute will be able to do a much more effective research job than is now being done, if for no other reason than the fact that it would attract the best scientists. (Dr. M. A. Farrell, vice-president for research, is secretary and treasurer of U.C.A.R.)

"I can foresee," he says, "that University scientists would aid the Institute and get help in return. Also, graduate students could do advanced studies at the Institute although completing the major part of their work at the university of their choice."

"We would probably also draw on manpower from abroad, where atmospheric research has not kept pace with work in this country except in isolated instances."

That the problem of manpower is recognized is evidenced by the fact that the American Meteorological Society in recent months sponsored with the aid of the National Science Foundation travel by recognized meteorologists, including Dr. Neuberger, to visit universities and colleges to explain the nature and importance of their work. Perhaps some of those who heard the scientists will one day work at the Institute.

"The oil industry tells us," says Dr. Neuberger, "that if they could have a long-range forecast of temperature within a five degree accuracy the industry would be saved a hundred million dollars yearly in operation costs."

"We can't forecast with such accuracy today because we don't have enough basic knowledge."

"But if the Institute becomes a reality, we think we will be able to answer a lot of questions which go unanswered now."

Items of Interest

• Honors

E. A. Walker, president, chosen one of nine to receive Horatio Alger award for 1959.

• Lectures and Talks

Lois Boe Hyslop, Romance languages, a talk before the Blair County Modern Language Teachers' Association in Altoona, on "Are We Too Late to Win the Language Race."

L. P. Greenhill, academic research and services, at a symposium on "Communications Research," before the Institute for Education by Radio-Television, sponsored by Ohio State University.

Hazel Daniels, elementary education, at the Lewistown Business and Professional Women's dinner on "Penn State's Program in Educating Our Children's Teachers."

A. J. Shaler, metallurgy, at the annual meeting of the Metal Powder Industries Federation on "Detergency in Powder Metallurgy." Also, at the Wilmington (Del.) chapter of the American Society for Metals, on "Metallurgy As a Career."

H. H. Neuberger, meteorology, a lecture tour recently completed sponsored by the American Meteorological Society at University of South Carolina, Western Carolina College, and at Lenoir Rhyne College.

J. D. Ridge, Mineral Industries, lectures at Harpur College sponsored by the American Geological Institute.

• Articles and Papers

J. F. Corso, psychology, an article titled "Age and Sex Differences in Pure-Tone Thresholds," in the April issue of the Journal of the Acoustical Society of America.

C. R. Carpenter, academic research and services, a paper at the Washington Conference on Psychological Problems and Research Methods in Mathematics Training, on "An Analysis of Teaching-Learning Functions."

J. W. Caldwell, industrial engineering, in the April issue, Advanced Management Magazine, an article titled "Management Skills for Scientists in Supervision."

Honors Day Tuesday

The annual College of Engineering and Architecture Honors Day Program will be held in Schwab Auditorium on Tuesday, May 19 at 4:15 p.m. Students who have received fellowships, scholarships, award medals and prizes will be introduced. An Honors Day brochure prepared by the Student Council of the College will be distributed.

Grad School Faculty Meets

The faculty of the Graduate School will meet on Tuesday, May 19th, at 4 p.m. in Room 121, Sparks Building.

Leadership —

(Continued from page one)
mining jobs and half of the textile jobs have disappeared.

Similar stories can be told for other areas of the State which, since the early 'fifties, have shown unemployment exceeding six per cent. Fortunately, says Dr. Kaufman, many areas are doing something about their problems.

Development Programs

Officially, the State's program of aid to areas of surplus labor stems from the Pennsylvania Industrial Development Authority established as Act No. 537 of the 1955 Session of the General Assembly and signed by the Governor on May 17, 1956.

"In actuality," says Dr. Kaufman, "various communities have taken steps of their own to plan for the future long before the PIDA Act was passed."

The Wilkes-Barre-Hazleton labor area is one of the outstanding examples of self-help, Dr. Kaufman points out, and one of the earliest. The Wyoming Valley Industrial Development Fund was established in 1939 to create more jobs and larger payrolls. PIDA loans for Luzerne County (since 1956) top those for any other county in the State: a total of \$2,832,282 for 17 projects. Announced added employment (probably higher than actual employment) is expected to be nearly 3300 persons when all facilities are in full swing.

Altoona was also a pioneer in industrial development activity. Business leaders organized as early as 1934 and raised \$125,000 for an industrial expansion fund, constructed a building still in use and encouraged three other firms to locate in the area. Altoona Enterprises, Inc., financial body for the Industrial Development Committee of the Chamber of Commerce, organized after the War. By 1959, Altoona Enterprises has raised more than \$1,200,000 for industrial development of which 90 per cent was committed to projects creating about 4,000 jobs. At the same time, Blair County as a whole participated in only two PIDA loans, aggregating less than \$400,000.

Other areas have sought various means of overcoming their employment dilemma, with varying degrees of success. One of the unfortunate facts in Pennsylvania, Dr. Kaufman indicates, is that young people seem to be leaving the State for "greener pastures." Out-migration of the age group 25-44 runs higher than in the neighboring states of New Jersey and New York.

"It is probably true," says Dr. Kaufman, "that migrants leave the State for better economic opportunities, moving to nearby states where possible but being willing to make longer moves if necessary."

The migration of workers and retraining of others is part of Dr. Kaufman's study. Mobility, it is found, depends on many factors, but certainly not the least of these is age; young workers, even though married, appear quite willing to move where the job is.

Movement of industry into Pennsylvania is also a complex picture. Al-

though it is quite commonly stated that tax structures in the State tend to keep out industry, Dr. Kaufman is not sure this is true.

"When you pin an industry down on the matter," he says, "to the alternatives to moving to specific locations in the State, Pennsylvania doesn't come off badly at all."

The solution to the problems of a labor area, Dr. Kaufman says, depend to a very great extent on the leadership in the area. In some communities, the people who are left are not greatly interested in the future, since they are usually of the upper age bracket.

"In the minds of many economists," says Dr. Kaufman, "the question is not whether the Federal Government should help the areas affected by chronic unemployment but how much it should help."

"They believe that it is as wise to aid depressed areas in this country as it is to extend aid to underdeveloped areas in foreign countries."

"But the local communities will have to do something for themselves, also. Men of vision and drive are needed for the job."

FAE To Make Awards For Speeches On Leadership

The Fund for Adult Education will provide awards of \$1,000 each in both 1959 and 1960 for the three best speeches or articles on public leadership. The prize-winning articles and speeches will be published eventually in a single volume.

The awards are designed to generate the best thinking on the nature of public leadership and on ways in which more adequate education can be provided to help prepare American leadership on every level of social, economic, and political organization to serve the general welfare. The term leadership is meant to encompass the range of positions in which executive decisions and executive actions have public consequence, but excluding leadership whose force is primarily intellectual, spiritual, or artistic.

To be considered, copies of the talk or paper and a description of the occasion on which the talk was given should be sent to the Office of Information, The Fund for Adult Education, 200 Bloomingdale Road, White Plains, N. Y.

Two Publications Issued

Robert A. Sigafos, acting executive secretary of the Institute of Local Government, is author of two publications, "Public Affairs Research in Pennsylvania," and "Land for Industry, the Pennsylvania Case," both released recently.

Gardens Being Plowed

To raise funds for its activities, members of the student branch of the American Society of Agricultural Engineers are plowing gardens in the State College area. Residents who wish further information should call Ext. 711.

Calendar

Friday, May 15

Graduate Student Association annual Spring dance, Hetzel Union Building ball room, 9 to 12 p.m., semi-formal. Refreshments served, admission free for graduate students and faculty members.

Phi Kappa Phi annual initiation and banquet, 5:15 p.m., HUB assembly room, and 6:15 p.m., HUB dining room.

Saturday, May 16

UCA dinner-lecture by Dr. Joseph Sittler, professor of theology, University of Chicago Divinity School, speaking on "History and the Problem of Christian Statement," 6 p.m., dining room "C," Hetzel Union Building.

Varsity golf, versus Cornell University. Cosmopolitan Club cabin party, at Mineral Industries cabin. Cars leave from rear of Old Main, between 2 p.m. and 3 p.m.

Sunday, May 17

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Reverend Theodore Braun.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Joseph Sittler, professor of theology, University of Chicago, Divinity School. Spring concert by Meditation Chapel Choirs, combined, with James Beach conducting, 8 p.m., Helen Eakin Eisenhower Chapel.

Monday, May 18

Engineering Mechanics Seminar, 4:15 p.m., Room 203, Engineering "A."

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Walter H. Walters, head of the theatre arts department, on "Blueprint for a Summer Theatre."

State College Color Slide Club, 7:30 p.m., Room 24, Mineral Sciences. Dr. George F. Johnson, on "The Exciting Search for the Picturesque."

Vesper Service, 4:15 p.m., Helen Eakin Eisenhower Chapel. The Wedding as Symbolized in Word and Music.

John Henry Frizzell Extempore Speaking Contest, final judging, 7 p.m., Room 110, Electrical Engineering Building.

Graduate Mining Seminar, 3:30 p.m., Room 24, Mineral Industries. Pedro S. Cortes, on "Operating Features of the Diamond Drill."

American Statistical Association meeting, 5 p.m., Room 201, Willard Building. Dr. Donald Laird, on "Monte Carlo Methods."

Tuesday, May 19

Concert by Penn State Singers, 8:15 p.m., Hetzel Union Building Assembly Room.

Meeting of the Graduate School Faculty, 4:10 p.m., Room 121, Sparks Building.

Economics Faculty Seminar, 12 noon dining room "A," Hetzel Union Building. Dr. Edwin G. Nourse, distinguished visiting professor of economics, on "Economic Outlook."

College of Engineering and Architecture Honors Day program, 4:15 p.m., Schwab Auditorium.

Physics Colloquium, 4:15 p.m., Room 117 Osmond Laboratory. Dr. Robert L. Peterson, department of physics, Lehigh University, "On the Use of Microscopic Spin Operators and Relaxation Phenomenon."

Thursday, May 21

Biological Sciences Lecture Series, 4:15 p.m., Room 112, Buckhout Laboratory. Dr. Henry Margenau, distinguished visiting professor of physical and engineering sciences, on "Casual and Functional Explanations of Biological Behavior."

Lecture by Dr. Henry Margenau, 7:30 p.m., Room 119 Osmond Laboratory, on "Can the Methods of Science be Applied to Human Affairs."

Mathematics Colloquium, 3:15 p.m., Room 124, Sparks Building. Carl C. Faith, assistant professor of mathematics, on "Groups and Rings."

Spring meeting of the Board of Directors, University Christian Association, at Evangelical United Brethren Church. Rev. John Duley, associate minister, Indiana Presbyterian Church, Columbus, Ohio, the speaker. For reservations, call Mrs. Latham, Ext. 541.

Meeting of the faculty of the College of the Liberal Arts, 4:15 p.m., Room 121, Sparks Building.

Meeting of the College of Home Economics faculty, 4:15 p.m., Room 14, Home Economics Building.

College of Business Administration faculty meeting, 4:10 p.m., Room 111, Boucke Building.

Friday, May 22

Mineral Industries Colloquium, 4:15 p.m., Room 24, Mineral Sciences. Dr. R. Girdler, research associate, Lamont Geological Observatory, Columbia University, on "The Relationship of the Red Sea to the African Rift Valleys."

Chicago Theologian At UCA Dinner-Lecture

Dr. Joseph Sittler, professor of theology, University of Chicago Divinity School, will be the speaker at the faculty dinner-lecture tomorrow evening at 6 p.m. in dining room "C" of the Hetzel Union Building.

Reservations for the dinner must be made by this afternoon by calling Mrs. Teed, Ext. 541. Price is \$1.75.

Dr. Sittler, who will speak on "History and the Problem of Christian Statement," is the author of "Doctrine of the Word" and "Structure of Christian Ethics." He was professor of systematic theology at Chicago Lutheran Seminary before assuming his present position.

The Lecture is the last in the current series, sponsored by the University Christian Association.

Accounting Activities Realigned For Future

Because of the increasing complexity of present activities and to look to the future expansion of the University, the division of accounting has been realigned.

C. R. Barnes, University controller, has announced that four new divisions have been created, with specific duties to be administered by new directors, as follows:

William F. Christoffers, director, division of accounting methods.

Walter S. Hiester, director, division of accounting operations.

David C. Hogan, Jr., director, division of revenue accounting.

Warren R. Shenk, director, division of accounting services.

Chapel Choirs To Give Spring Concert Sunday

The Second Annual Spring Concert of the combined Meditation Chapel Choirs will be held in the Helen Eakin Eisenhower Chapel on Sunday, May 17 at 8 p.m. James Beach, instructor in music, is the conductor.

Works by Palestrina, Bach, Hilton, Mozart, and Haydn will be featured. Soloists will be Eugene Wapner, Gale Leister, and Paul Wenhold. Organists are Nancy Hadfield, Mary K. Herold, and William Mastrocola.

A reception will follow the concert in the Memorial Lounge of the Chapel.

Penn State Singers

Have Concert Tuesday

The first concert by the newly formed Penn State Singers will be held at 8:15 p.m., Tuesday, May 19, in the Hetzel Union Building.

Composed of 25 students, the group was organized by Raymond Brown, assistant professor of music, as a collegium musicum similar to those found in this country and abroad.

Senate Meeting June 3

The next regular meeting of the University Senate will be held on Wednesday, June 3, at 4:15 p.m. in Room 121, Sparks Building. Please note change in the date.

Next Month

CHAPEL SERVICE

10:55 a.m., Schwab Auditorium

May 24—Dr. Edmund A. Steimle, of Philadelphia.

May 31—Dr. Luther H. Harshbarger, University chaplain.

CONCERTS

May 24—Blue Band Concert.

LECTURES

May 23—Distinguished Lecture in Philosophy by Dr. Charles Hartshorne, Emory University, on "Mind as Memory and Love."

CALENDAR

June 6—Commencement

June 11-13—Alumni Homecoming

NATO's von Karman Speaks Twice Today

Dr. Theodore von Karman, chairman of the Advisory Group for Aeronautical Research and Development, North Atlantic Treaty Organization, will present two talks today.

At 4:15 p.m. in Room 105, Mechanical Engineering Building, he will speak on "Magnetohydrodynamics."

This evening at 8:15 p.m. he will speak on "Engineering in Our Times," sponsored by the College of Engineering and Architecture.

Dr. Margenau To Give Three Lectures Next Week

Three Lectures intended for the faculty, students, and general public will be given next week by Dr. Henry Margenau, distinguished visiting professor of physical and engineering science, next week.

On Thursday, May 21, he will speak on "Can the Methods of Science be Applied to Human Affairs," at 7:30 p.m. in Room 119, Osmond Laboratory.

Also on Thursday, at 4:15 p.m. he will address the Biological Sciences Lecture Series in Room 112, Buckhout Laboratory, on "Casual and Functional Explanations of Biological Behavior."

On Friday, May 22, he will speak on "Numerology and the Cosmos," in Room 121, Sparks Building, at 7:30 p.m.

Telecasts To Conclude With Summary Next Week

The concluding week of the Penn State: Its Men and Ideas telecasts will feature Dr. William G. Mather, head of the department of sociology, and Dr. Maurice A. Mook, professor of anthropology, on Monday; Dr. Grace M. Henderson, dean of the College of Home Economics and Dr. Winona Morgan, head of the department of child development and family relationships, on Wednesday.

The final program of the year will be held on Friday, May 22 featuring Dean Henderson and Dr. Mather, with Gilbert S. Aberg, radio-television producer in the department of public information.

All programs are at 9:50 a.m. and next week's time is devoted to a summary of the semester's discussions which were concerned with American family life.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Commencement Exercises To Hear AEC Chairman

John A. McCone, chairman of the Atomic Energy Commission, will deliver the address at Commencement Exercises at Beaver Field on June 6. The program begins at 10:30 a.m.

In case of rain, two programs will be held in Recreation Building.

Faculty members who expect to be in the procession are advised that if the weather is clear, they will meet at 10:15 a.m. in the lobby of Waring Hall.

In case of rain, faculty members of the Colleges of Business Administration, Physical Education and Athletics, Education, Home Economics, and the Liberal Arts will meet at 10:15 a.m. under the south balcony of Recreation Building. Members of the faculty of the Colleges of Agriculture, Chemistry and Physics, Engineering and Architecture, and Mineral Industries, will meet at 1:45 p.m. at the same place.

Brookhaven Scientist To Address ACS Meeting

Dr. Gerhart Friedlander, of Brookhaven National Laboratory, will address the meeting of the Central Pennsylvania Section of the American Chemical Society on Wednesday, May 27, at 8 p.m. in Room 117, Osmond Laboratory.

He will speak on "High Energy Nuclear Reactions."

President Walker Granted Bliss Medal By SAME

The Society of American Military Engineers has conferred the Bliss Medal to President Eric A. Walker, one of six to receive the medal which is created to perpetuate the memory of the World War I Army Chief of Staff, General Tasker H. Bliss.

The Society thanked President Walker for applying "his great talents liberally to the improvement of the military and engineering instruction and the development of technical leadership in the Reserve Officers Training Corps of the University."

Blue Band Concert Has Women's Chorus Sunday

The Penn State Concert Blue Band will present its annual Spring Concert on the steps of the Pattee Library at 3 p.m. on Sunday, May 24, with the Penn State Women's Chorus also featured.

The Chorus, under the direction of W. Paul Campbell, associate professor of music education, will sing three numbers.

James W. Dunlop, professor of music education, will direct the Band in music by Wagner, Robert Russell Bennett, Meredith Wilson, and selections from "Gigi."

Language Exams Listed

Graduate students planning to take the written foreign language reading examinations at the next scheduled time, July 27, and who have not previously taken the preliminary oral tests, should arrange for the oral test to be given on June 29 and 30. Make an appointment at Room 227 Sparks Building for the German test and Room 300 Sparks for the Spanish and French tests.

All other students who have passed the preliminary oral test but failed the written examination should register for the regular written exam on July 27 no later than July 1 in Room 227 for German, Room 247 for English, and Room 300 for French and Spanish, all in Sparks Building.

Summer Session Registration Down

Pre-registration of undergraduates for Summer Sessions has been termed "encouraging" although somewhat behind the total of a year ago.

Dean P. C. Weaver said he expects enrollment ultimately to reach last year's totals of 3169 undergraduates and 4676 graduate students. However, he points out, pre-registration was held in April this year and in past years has been held in May. He said further that many students show no interest in Summer Session before late May or early June.

Sewage Plant Tour Planned For Saturday

A guided tour and inspection of the sewage plant which serves the University and the Borough will be held Saturday, May 23, from 2 to 4 p.m.

The tour, which will take about 30 minutes, will include the entire plant and the laboratory building. Guides will explain the purposes of the various pieces of equipment.

Thomas B. Kneen, head of the division of utilities, and R. J. Schatz, design engineer for Morris Knowles, Inc., designers of the plant, will be on hand to answer questions.

Invitations have been extended to officials of the State and Borough governments, local civic organizations, and others. Kneen emphasizes that the tour is open to the public.

Philosophy Meeting To Hear Hartshorne, Hersch

The Western Pennsylvania Section of the American Philosophical Society will meet on campus on Saturday, May 23, with the department of philosophy as host. Dr. Henry A. Finch, professor of philosophy, is president of the Section.

At 11 a.m. in the HUB Auditorium, Dr. Charles Hartshorne, professor of philosophy at Emory University, will give the principal address on "Mind as Memory and Love." The talk is also the last in current series of Distinguished Lectures in Philosophy.

At 2:30 p.m., Dr. Jeanne Hersch, distinguished visiting professor of philosophy, will address the meeting, also open to the public, on "Introduction to the Philosophy of Jaspers," in Room 214, Hetzel Union Building.

Office Changes Made

The main offices of the department of housing are now located in Room 1-A, Irvin Hall and those of the department of food service in the Food Stores Building, after recent changes. E. F. Olver, director of security, is now in the new Telephone Building.

Senate Minutes

Minutes of the Meeting of May 7, 1959

The University Senate met at 4:15 p.m., on Thursday, May 7, 1959, in Room 121 Sparks Building, with Vice President L. E. Dennis presiding. The minutes of the April 2 meeting were approved as printed in the Faculty Bulletin for April 10, 1959. 180 senators signed the roll.

Communications From University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: Ben Euwema (J. H. Ferguson), Ossian Mackenzie (R. L. Smith), D. R. Mitchell (E. J. Burcik), W. A. Weyl (E. A. Hummel), E. R. Queer (F. A. Joy), R. W. Stone (E. S. Lindstrom), A. K. Blackadar (R. T. Duquet), L. P. Guest (F. L. Whaley), Edna Sommerfeld (Eva D. Wilson), H. B. Charnbury (H. L. Lovell), D. E. Hardenbergh (Norman Davids), Joseph Marin (G. U. Oppel), D. R. McClay (G. Z. Stevens), and H. B. Sprague (A. C. Richer).

Letters from the various undergraduate Colleges naming the newly elected senators for 1959-1962 were read by the secretary as follows:

AGRICULTURE — J. W. Bratzler, H. W. Dunne, G. Z. Stevens, To Be Appointed.

BUSINESS ADMINISTRATION — F. H. Cook, R. W. Kautz, A. H. Reede, R. H. Waters, As replacement for R. D. Pashek Sept. 1, 1959 to Sept. 1, 1960, W. H. Martin.

CHEMISTRY AND PHYSICS — A. W. Hutchison, Joseph Jordan, T. S. Oakwood, R. G. Stoner, As replacement for G. H. Ward 1959-60, A. S. Carney.

ENGINEERING AND ARCHITECTURE — J. A. Fox, D. E. Hardenbergh, J. R. Mentzer, C. J. Smith.

LIBERAL ARTS — J. B. Bartoo, Aaron Druckman, J. H. Ferguson, M. A. Mook, As replacement for Jessie Bernard 1959-60, F. B. Marbut.

PHYSICAL EDUCATION AND ATHLETICS — Della Durant, J. J. O'Hara, R. R. Ricker, D. B. Swegan, As replacement for Joan Nessler 1959-60, D. J. Watkins.

EDUCATION — K. R. Beittel, H. M. Davison, H. K. Hutton, G. M. Torkelson, As replacement for F. A. Miller 1959-61, W. P. Campbell.

HOME ECONOMICS — James Montgomery, Alberta Siegel, William Smith, Eva Wilson, As replacement for Alida Hotchkiss 1959-60, Ina Padgett.

MINERAL INDUSTRIES — E. J. Burcik, C. R. Kinney, L. H. Lattman, J. J. Schanz, Jr.

GRADUATE SCHOOL — To be elected later.

From C. S. Wyand, Secretary of the Board of Trustees, excerpts from the minutes of the meeting of the Board held on April 3, 1959:

Approval of the Curriculum in Engineering Mechanics in the College of Engineering and Architecture.

Approval of the Dual Degree Program in Liberal Arts and Engineering in the Colleges of the Liberal Arts and Engineering and Architecture.

Approval of the curriculum in Food Retailing and Distribution in the Colleges of Agriculture and Business Administration.

Reports of Standing Committees

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report 8 A which had been distributed with the agenda as Appendix "A". He indicated that items II and III were for the information of the Senate. Mr. Shelley moved adoption of Items I A and I B. The motion was seconded and passed. He then presented the supplement 8 B which had been distributed and moved adoption of Items I A, I B, and I C. The motion was seconded and passed. The Chairman stated at this point that members of the Senate had received a letter relative to certain items of Supplement 8 B. It was ruled by the Parliamentarian that this should properly be considered under new business. The complete report, which contained a new Two-Year Associate Degree Program in Business Administration, is on file in the office of the secretary.

R. E. Larson, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report which had been distributed with the agenda as Appendix "B". He stated no action was requested at this meeting but asked that the members of the Senate read the report carefully and submit comments or proposals to the Committee. The report is as follows:

INFORMATIONAL REPORT REGARDING FRESHMEN YEAR PROGRAMS

The committee believes that the education-

al responsibility of the University extends both to basic education and to specialized training. Specialization should be concentrated to a greater extent in the last years of a collegiate career than in the early years. Conversely, basic education should have its major emphasis in the beginning years of the collegiate experience. This is not to say that concentration in either category should be carried to the point of exclusiveness; it is merely the recognition of the fact that staff and physical facilities, particularly at the Commonwealth Campuses, can be most efficiently utilized within this framework.

It is incumbent upon the University to design its total academic program in such a way that the balance between a general and a specialized education can be maintained effectively. The committee believes specifically that the present practice of admitting freshman students to a curriculum in a degree-recommending college should be abandoned. Admission to the University should not depend upon the selection of a curriculum by the entering student as is now sometimes the case.

We endorse the concept of a common freshman program for groups of curriculums having essentially the same intellectual base and suggest the creation of some administrative unit to handle the details of these programs.

We endorse the concept of a common freshman program for groups of curriculums having essentially the same intellectual base and suggest the creation of some administrative unit to handle the details of these programs. Under such a system, the administrative unit would have no faculty nor exercise any instructional functions. It would simply act as the assignment center and coordinator of the programs utilizing advisors from the faculties of the degree-recommending colleges. All freshmen, both at University Park and at the Commonwealth Campuses, thus would remain unassigned to any specific curriculum or college during their freshman year but would remain under general University direction. The freshman year of common programs for groups of curriculums having essentially the same intellectual base would postpone the present professional or vocational orientation of the incoming students and substitute an educational orientation for the freshman year. Admission to the degree-recommending colleges and specific curriculum would not begin until the sophomore year; under certain circumstances, especially at the Commonwealth Campuses, it might be feasible to leave a student assigned to the basic administrative unit through his sophomore year.

The committee believes that no more than five, and perhaps as few as two, freshmen year programs should be distilled from the present multitude. These might well include the five basic areas of (1) Physical Science and Mathematics, (2) Biological Science, (3) Social Science, (4) Humanities, (5) Fine Arts; or ultimately a technical and a nontechnical freshman year program.

The Committee believes that such a development would make instruction on all campuses more uniform, more efficient, more meaningful to the student, and more logical. Such a development would permit departments to plan ahead more accurately, to conserve staff and faculty skills, and to meet the influx of new students more confidently. Administratively, it would free the present colleges to concentrate more on their majors and provide more expert counseling to sophomores, juniors, seniors and honor students.

THE DIMENSIONS OF THE PROBLEM

1. With more than 10,000 applications for admission now against some 3,150 spaces available, it is imperative that the most promising students be admitted. This problem will become more acute with the increasing disparity between applications and spaces available.

2. There are seven sets of requirements for admission to the University at the present time. Obviously, this will no longer be possible if freshmen programs are reduced in number to five or less. It would seem desirable, therefore, for the University to arrive at a single set of admission standards for high school graduates. This could mean that some subject matter deficiencies, e.g., trigonometry or a foreign language, would have to be made up by some students after entrance to the University but prior to acceptance by a degree-recommending college.

3. Students accepted at the Commonwealth Campuses should have courses and curriculums available to them essentially the same as those available at University Park. This should hold true for all freshman programs and, wherever possible, for sophomore programs too.

4. Students admitted should have the opportunity for counseling and guidance concerning their achievement, aptitudes, and interests before committing themselves to a specific curriculum. They should, moreover, demonstrate capabilities in the general sub-

jects basic to a curriculum choice before they are admitted to a curriculum.

5. It will be necessary to obtain agreement among the 66 departments in the nine colleges of the University as to what constitute the appropriate courses for a small group of common freshman year programs.

6. The diversity of the University Park offerings in contrast with the present more limited offerings at the Commonwealth Campuses will pose a problem in reaching agreement as to what should constitute the freshman programs.

7. Superior teaching is essential for common freshman year programs if they are to serve as orientation to University study and as admission channels to curriculums in the sophomore year.

8. Common freshman year programs will need to be administered by one agency of the University serving as liaison between the secondary schools and the degree-recommending colleges. This agency would need to be staffed by advisers from the various degree-recommending colleges and work in collaboration with the Division of Counseling.

9. The full resources of the University should be available to the freshman year administrative and curriculum guidance agency of the University which would be in operation at all campuses. The success resulting from such support will be reflected in all undergraduate work in the various colleges and on the various campuses.

A. W. Hutchison, Chairman of the SENATE COMMITTEE ON EXTENSION POLICY, presented the report which had been distributed with the agenda as Appendix "C". He reported that in the preparation of this report, the Committee became much concerned about the importance of providing good educational opportunities for members of the faculty at other Campuses and Centers. He moved that the report be received by the Senate and that recommendations as follows be adopted:

Recommendations

In order to stimulate advanced degree work among all Commonwealth Campus staff members, and to eliminate insofar as possible the inequality of opportunities for such advanced degree study arising from the locations of the various Commonwealth Campuses, the Committee on Extension Policy makes the following recommendations.

1. That University policies and procedures for granting "Graduate Study Leave of Absence" be implemented to apply equally to all Commonwealth Campuses.
2. That the University policy on payment by the University during "Graduate Study Leave of Absence" be reviewed and revised in keeping with current costs of education. (The present policy provides that during the leave, the University will pay one-third (1/3) of the monthly salary each month for a period not to exceed twelve (12) months. However, in no case will the amount paid exceed \$125.00 per month.)
3. That a study be made toward developing a program to provide financial aid for graduate study during the summer.
4. That fee exemptions to regular employees of the University be provided for all University credit courses, undergraduate and graduate, without limitations as to number of credits for which exemptions may be claimed or as to method of scheduling.
5. That a review be made of the present regulations governing staff member course fee exemptions with a view toward liberalizing them and providing a standard percentage exemption.
6. That more graduate courses be offered on the University Park Campus during Summer Sessions.
7. That a study be made toward the establishment of "University Graduate Study Centers" at strategic locations throughout Pennsylvania, possibly in cooperation with other degree-granting institutions, where Commonwealth Campus staff members may take work for advanced degrees within reasonable travel distance of their Campus location.
8. That the Graduate School faculty be requested to re-examine its regulations governing the granting of advanced degrees to staff members and in particular to consider the possibility of permitting those in the assistant professor rank to secure the masters degree or the doctors degree from the University while under contract.

Vice President Dennis reported that he had been authorized by the President to state that if this report were adopted, item No. 1 would be referred to the deans; No. 2 is currently being considered by the President and members of his staff in connection with other relative items; No. 3 would be referred to the Council of Academic Deans; No. 4 is currently being studied by the President in order to make recommendations to the Board of Trustees; No. 5 is being considered with the

same objective, possibly for recommendation to the Board this spring or summer; No. 6 would be referred to the Council of Academic Deans; and No. 7 and No. 8 would be referred to the Dean of the Graduate School. The motion was seconded and passed. The complete report is on file in the office of the secretary.

A. D. Brickman, Chairman of the SENATE COMMITTEE ON ACADEMIC STANDARDS, presented the report which had been distributed with the agenda as Appendix "D". He stated that the committee does not feel that this constitutes an ideal "honors program" but that it does establish minimum requirements and procedures for establishing such a program at this University. Mr. Brickman moved that the report on the minimum academic requirements for the University honors program be approved. The motion was seconded. Following discussion by B. A. Whisler, Mary L. Dodds, Ruth W. Ayres, A. J. Shaler, J. G. Aston, Jessie R. Bernard, R. G. Stoner, H. Neuberger, D. H. McKinley, A. D. Brickman, and R. W. Brewster, Mr. Brewster moved to amend item C 3 as follows:

In order to qualify for an Honors diploma, the student must complete at least twelve (12) credits designated by the department as Honors course work.

The motion was seconded. Following discussion by B. F. Howell, Jr., and W. C. Fernelius, the motion was passed. W. S. Smith moved to amend item B 4 to read:

Before enrolling Honors candidates, an academic department must offer at least twelve (12) credits of course work acceptable for Honors students.

The motion was seconded and passed. Discussion continued regarding the original motion to accept the report of the Committee with regard to the "Minimum Academic Requirements for the University Honors Program" by W. G. Mather, A. D. Brickman, R. K. Murray, and J. R. Rackley. Mr. Rackley moved that items B 4 and B 5 be deleted and amended to read:

That the Honors program for a student be filed with the department head concerned by the student's adviser and that the grades to be used in evaluating the student's performance be Superior, High Pass, Pass, and Fail.

The motion was seconded. (At this point the Chairman appointed H. Fishburn, C. M. Speidel, and J. P. Roach, as Sgts.-at-Arms to quell a disturbance outside the building.) Following discussion by H. Neuberger and J. R. Rackley, A. W. Hutchison asked the Registrar how such a grading system would complicate recording grades in the Registrar's Division. R. G. Bernreuter pointed out that any grades received in the Registrar's Office could be recorded but grades such as Superior, High Pass, Pass, and Fail, would make it impossible to consider these students on an equal basis with other undergraduates for honors such as the John W. White Awards. The motion was defeated. The Chairman requested that in the interest of saving time, further discussion on this report be restricted to new points. E. B. VanOrmer moved to amend C 2 as follows:

Change grade point average to 3.00 instead of 2.50.

The motion was seconded and passed. W. G. Mather moved to amend C 4 as follows:

Each student must take and pass a comprehensive examination administered by the departmental Honors committee.

The motion was seconded and passed 81-78. D. H. McKinley moved that the report of the Senate Committee on Academic Standards be returned to the Committee "in order to make editorial changes and to take cognizance of the discussion and amendments made on the report today." The motion was seconded and defeated. The motion to accept the report of the Committee with amendments was seconded and passed. The amended report is as follows:

At its February 5, 1959 meeting the Senate adopted a policy statement encouraging the development of Honors programs for superior undergraduate students and giving the Committee on Academic Standards the responsibility of proposing minimum requirements for such programs. Accordingly, the Committee has attempted to first identify the salient features of all Honors programs and then spell out minimum criteria for their implementation as follows:

A. Features of the University Honors Program

1. Undertaken only by superior students that are specially selected and invited to participate;
2. Leads to conferral of baccalaureate degree awarded "with honors" in an existing academic curriculum or major;
3. Requires completion of a minimum honors course sequence in an academic department;
4. Permits acceleration in satisfying curricular course requirements;
5. Permits unusual breadth of coverage in inter-curricular study; and
6. Requires independent study via reading,

research, and/or thesis in the major field of interest.

B. Minimum Academic Requirements for the University Honors Program

1. Honors programs are to be formulated and administered on the departmental level by a standing committee of the sponsoring department.
2. The work of advising and teaching Honors program students is to be assigned as a regular part of a participating faculty member's schedule rather than superimposed on a full load of other duties.
3. All component parts of a departmental Honors program must be specified quantitatively by number of credits and carry designations compatible with the University system of course numbering and description.
4. Before enrolling Honors candidates, an academic department must offer at least twelve (12) credits of course work acceptable for Honors students.
5. The University undergraduate grading system (letter grades, grade point equivalents, et al) is to be used in reporting the performance of students in all Honors courses; however, such grades need not be recorded on the student's transcript until completion of the Honors program.

C. Minimum Academic Requirements for the University Honors Program

1. In order to be eligible for participation in an Honors program a student must have at least third semester standing and have attained either a cumulative grade point average of at least 3.00 or a 4.00 average in courses in his academic major. In addition, each eligible student must be invited to participate in the program by the departmental Honors committee.
2. An Honors student must maintain a cumulative grade point average of 3.00 in order to remain in the Honors program.
3. In order to qualify for an Honors diploma, the student must complete at least twelve (12) credits designated by the department as Honors course work.
4. Each student must take and pass a comprehensive examination administered by the departmental Honors committee.

The Committee recommends that the foregoing criteria be approved by the Senate and that they be applied as all-University minimum standards for the awarding of Honors diplomas. (H. Fishburn reported for the Sgt.-at-Arms that the disturbance was caused principally by the Percussion Section.)

The Senate Minutes will be concluded in the next issue of the Faculty Bulletin on May 29.

Senate Meets June 3

The University Senate will meet on Wednesday, June 3, in Room 121, Sparks Building, at 4:15 p.m.

Oliver Is Delegate To Far East Conference

Dr. Robert T. Oliver, head of the department of speech, joined delegates from 25 nations of the Far East in a non-governmental week-long conference in Kyoto, Japan, last week.

The conference was called to discuss the problems of reconciliation and cooperation among the anti-Communist nations of Asia. Korean-Japanese relations were among the subjects discussed.

Dr. Oliver has had a long association with Korea and with its president, Dr. Syngman Rhee.

Credit Union Drops Holdings Limitation

A steady growth in membership has enabled the University Park Credit Union to remove its former limitation on individual share holdings, President Gerald Moser has announced. He indicated that University employees seeking membership should contact him or call the Credit Union office, AD 7-7055.

Mattil's Publication Gets Much Attention

The Spring Issue of "Everyday Art," to which five faculty and staff members contributed, is receiving commendable attention in art and education circles nationally.

Editor of "Everyday Art" is Edward



E. L. MATTIL

L. Mattil, associate professor of art education. Feature article of the most recent issue was prepared by Dr. Stuart W. Frost, professor emeritus of entomology, writing on the subject, "Insects Exalted." The article

tells how insects are used in the many art forms and throughout the history of art.

George Pappas, assistant professor of art and art education, did the layout work for this issue in a colorful presentation, and Edward Leos, University photographer, who serves as Mattil's staff photographer, did many of the pictures. Bill Hanson, instructor in art, contributed several photos in black and white and in color.

Jarvis Barlow, director of the Los Angeles County Art Institute and columnist for the Los Angeles Independent Star-News, said: "The entire issue is dedicated to one of the most charming and truly revealing discussions that it has been our pleasure to come across . . . it constitutes, in essence, what education worthy of the name strives to accomplish; to make perceptive and to raise sights, as well as questions, to open new vistas and to provoke exploration into the wonders of the nature-world without and of the man-world within us."

Mattil has been editor of the 37-year-old publication, which is produced by The American Crayon Co., for three years and in that time has seen the circulation jump from 5,000 to 25,000. Although the basic purpose of the magazine is to serve as an advertising medium among art educators and artists themselves, Mattil is permitted to keep advertising out of the body of the publication and limit it to the back covers.

Past issues have included writings and paintings of other staff members, including Viktor Lowenfeld, Yar Chomicky, Edwin W. Zoller, George S. Zoretich, Stuart H. Frost, Pappas and his wife, Marlyn, and Albert Christ-Janer.

The feature articles are largely solicited from recognized leaders in the art and art education field. Some of the success of the publication can be judged by the high station of the contributors, who are among the leaders in the field.

Another way of measuring is the mail bag, which brings congratulations and thanks from all corners of the United States and from England, France, Australia, and Canada.

Calendar

Friday, May 22

Mineral Industries Colloquium, 4:15 p.m., Room 24, Mineral Sciences. Dr. R. Girdler, research associate, Lamont Geological Observatory, Columbia University, on "The Relationship of the Red Sea to the African Rift Valleys."

Lecture by Dr. Henry Margenau, visiting professor of physical and engineering science, 7:30 p.m., 121, Sparks, on "Numerology and the Cosmos."

P.I.A.A. tennis and golf championships begin, 9 a.m.

Varsity tennis, versus Colgate, 3 p.m.

Meeting of faculty of College of Agriculture, 4:15 p.m., Room 109 Armsby.

Saturday, May 23

Western Pennsylvania Section of American Philosophical Society meeting. At 11 a.m., Dr. Charles Hartshorne, professor of philosophy, Emory University, will speak on "Mind as Memory and Love," in the HUB Auditorium; and at 2:30 p.m., in 214, Hetzel Union Building, Dr. Jeanne Hersch, visiting professor of philosophy, on "Introduction to the Philosophy of Jaspers."

Varsity track, versus Manhattan, 1 p.m.

P.I.A.A. championships in track, golf, and tennis.

Spring semester classes end, 11:50 a.m. Examinations begin at 1:10 p.m.

Sunday, May 24

Blue Band Concert, with Women's Chorus, 3 p.m., at steps of Pattee Library.

Protestant Service of Worship, 9 a.m., Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab.

Chapel Service, 10:55 a.m., Schwab.

Dr. Edmund A. Steinle, The Lutheran Theological Seminary, Philadelphia, Pa.

Tuesday, May 26

Physics Colloquium, 4:15 p.m., 117, Osmond Laboratory. Dr. E. G. Fuller, National Bureau of Standards, on "Nuclear Deformation and Nuclear Photo-Effect."

Wednesday, May 27

American Chemical Society meeting, 8 p.m., Room 117, Osmond Laboratory. Dr. Gerhart Friedlander, Brookhaven National Laboratory, on "High Energy Nuclear Reactions."

Thursday, May 28

Mineral Industries Colloquium, 4:15 p.m., Room 24, Mineral Sciences Building. Dr. G. D. Hobson, Royal School of Mines, Imperial College of Science and Technology, London, Eng., on "Some Thoughts on Oil Accumulations."

Friday, May 29

University offices closed all day.

Tuesday, June 2

Spring Semester exams end, 5:30 p.m.

Offices To Close

Friday, Saturday

University offices will be closed on May 29 and 30 all day in celebration of Memorial Day, Albert E. Diem, vice-president for business administration, has announced.

Students will continue with their final examinations both days, however. The original schedule of examinations listed May 30 as a holiday; subsequently the calendar was changed so that students would be able to conclude their examinations one day earlier.

On Saturday, Memorial Day activities on campus will include the placing of wreaths at Old Main, President Atherton's grave, Recreation Building, and Forestry, in traditional ceremonies which include the firing of volleys at each of the locations and the sounding of taps. Students represents the Army, Navy, and Air Force R.O.T.C.

Air ROTC Man Assigned

Capt. Clyde R. Clear, a graduate of the United States Military Academy, who has been stationed at Andersen Air Force Base, Guam, has been assigned as assistant professor of air science.

Items of Interest

• Articles and Papers

D. C. Greene, G. A. Ruff, and E. J. Skudrzyk, all of Ordnance Research Laboratory, papers at meeting of Acoustical Society of America last week.

M. D. Richards, management, in the April issue of *Advanced Management*, an article titled "Effective Staff Meetings."

R. G. Cochran, nuclear engineering, and W. W. Pratt, physics, joint authors of a paper titled "The 25-Minute Isomer of Selenium-83" in the Feb. 1 issue of *Physical Review*.

James Gemmell, education, with other leaders in the field of business education, a monograph on "Let's Educate Youth For Effective Business Life."

C. L. Hosler, Jr., meteorology, co-author of paper on "Collection Efficiency of an Ice Pellet in an Ice Crystal Cloud," at the national meeting of American Meteorological Society.

A. K. Blackadar, meteorology, co-author of paper on "The Effect of a Horizontal Temperature Gradient on the Surface Wind," at AMS meeting.

H. E. Dickson, art and architecture, an article "The Arts and Art Knowledge — A Sermon for Students (and Teachers)" in the spring issue, *College Art Journal*.

E. R. McLaughlin, engineering research, a paper titled "Aluminum and Foamed Plastic Panels," before the Pittsburgh section, Society of Plastic Engineers.

R. W. Taft, Jr., chemistry, a paper titled "Isotopes and the Mechanism of Olefin-Alcohol Interconversion" at a conference sponsored by the Research and Development Division, Sun Oil Company.

R. B. Helfgott, economics, an article in the May, 1959, issue of *Labor Law Journal*, on "Union-Management Cooperation in the British Clothing Industry."

Joseph Marin, Piero Borachia, Ulrich Rimrott, engineering mechanics, a paper titled "The Effect of Stress Cycling on the Static Mechanical Properties of SAE 4340 Steel," in June at the annual meeting of the American Society for Testing Materials.

G. M. Dusenberre, mechanical engineering, a paper titled "Triangular Grids for Heat Flow Studies" in a forthcoming issue of the *Journal of the American Society of Naval Engineers*.

• Lectures and Talks

M. R. Cannon, chemical engineering, a talk on "Recent Research in Distillation and Liquid Extraction" before the Charlotte-Piedmont section, American Chemical Society.

R. R. Kountz, sanitary engineering, a talk on "Home Garbage Grinders and Industrial Wastes in Public Sewer Systems" before the commissioners of

Springfield Township, Delaware County.

B. W. Niebel, industrial engineering, at the 10th Annual National Conference and Convention of the American Institute of Industrial Engineers on "Need for Industrial Engineering Techniques in Product Design and Development."

Rocco Carzo, Jr., management, a talk on "Management and Human Resource" at the meeting of the Office Procedures and Systems Association in Johnstown.

G. R. Hudson, education, address at the Lycoming County Elementary Guidance Workshop on "Parent-Teacher Conferences."

W. A. Lloyd, chemical engineering, a talk on "Iron Oxide Reduction Studies" before the M. W. Kellogg Co. Research Division, May 12.

L. T. Lee, political science, three lectures on "China" and "Problems of World Peace," before the Westminster College student assembly, May 7 and 8.

W. M. Smith, Jr., family relationships, before the Civic Club of Harrisburg, on "Family Life in a Changing Age."

E. W. Miller, geography, talked on "Mineral Regionalism of the Canadian Shield," at the Geography Conference at the Millersville State Teachers College on May 8.

J. A. DeNovo, history, an article "American Relations with the Middle East: Some Unfinished Business," in a collection titled "Issues and Conflicts" by the University of Kansas Press.

• Books

R. W. Green, history, "Protestantism and Capitalism — The Weber Thesis and Its Critics," one of a series published by D. C. Heath and Company.

Films To Be Previewed

Films listed below have been requested from producers. Please call Extension 2051 and give code number of those you would like to see; you will be notified when they arrive so that you can arrange a preview showing in Room 9, Library.

- Ma-1 Human Body: Reproductive System
- Ma-2 All the Years (filmstrip) (Aging)
- Ma-3 The Highwayman (dramatization of Noyes poem)
- Ma-4 Swimming: Parts I, II, III
- Ma-5 Our Family Works Together
- Ma-6 Namatjira (Australian native watercolorist)
- Ma-7 Isle of Bounty (descendants of "Bounty" mutineers)
- Ma-8 Aborigines of the Seacoast (central north Australia)
- Ma-9 New Guinea Patrol (aborigines in first contact with white man)
- Ma-10 Arnheim Land (scientists at work among aborigines)
- Ma-11 A Community Keeps House
- Ma-12 New Frontiers of the Brain
- Ma-13 Hunt for a Cancer Killer
- Ma-14 Open Heart Operation
- Ma-15 Point of Decision (decision-making groups)
- Ma-16 Dance Your Own Way (dance film for children)
- Ma-17 Colonialism: Ogre or Angel?
- Ma-18 Black and White in South Africa
- Ma-19 French Language series (filmstrips)
- Ma-20 Speech Preparation
- Ma-21 Lights (driver education)
- Ma-22 Know Your Library
- Ma-23 Word Building in Our Language
- Ma-24 What about School Spirit? (Discussion film)
- Ma-25 What about Prejudice? (discussion film)
- Ma-26 The Troublemaker (discussion film)
- Ma-27 Manners in School

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Actions Being Taken To Establish Campus Ties

AN increasingly closer tie between the faculties at the several Commonwealth Campuses and University Park should be evidenced soon, says Kenneth L. Holderman, coordinator of the Commonwealth Campuses.

Officially, the faculties at the Commonwealth Campuses will become members of their respective colleges and subject matter departments on July 1. Thereafter, correlation of the academic affairs between the departments and the C.C. faculties will be a responsibility of the colleges.

"On the administrative side," says Holderman, "the proposed Administrative Committee on Commonwealth Campuses, composed of the general officers of the University serving in an ad hoc capacity and the directors of the Commonwealth Campuses, will meet regularly. If academic affairs become the subject of discussion the appropriate deans, associate deans, or department heads, will also meet with the Committee."

Already several such meetings of Campus Directors have been held, to discuss long range planning, press relations, and recruitment of academic personnel. Operating procedures in many areas have been part of the discussions.

"No immediate changes in faculties are expected," Holderman says. "Nor do we anticipate drastic changes in the student bodies. The same qualifications for admission applied to the University Park campus will also apply to the baccalaureate candidates at the Commonwealth Campuses and appropriately high entrance standards are required of candidates for associate degrees. All students are admitted by the Dean of Admissions.

There are some essential differences between the faculties at the Commonwealth Campuses and those at University Park, and it would be helpful for

both groups to understand this, Holderman explains. One difference exists because the student bodies also differ: at the Commonwealth Campuses approximately half the students are candidates for associate degrees and all students are at the freshman and sophomore level.

"However," Holderman continues, "in many other respects the students are much the same as those at University Park. Although there may be a higher percentage from the second or third-fifth of their high school graduating class, those who start their work at the Commonwealth Campuses do just as effective work in their final two years at University Park as do those who were on the main campus all four years."

Assignment of students to the Commonwealth Campuses is being made on the basis of choice. Many students, of course, prefer to attend one of the Commonwealth Campuses. If, however, there is still space available at one of these campuses at such time that the University Park enrollment is filled, others seeking admission will be offered admission at one or another of the Commonwealth Campuses. This could very reasonably mean that there may ultimately be little difference in the quality of students at all places.

Faculties at the Commonwealth Campuses have less opportunity to do some types of research than do University Park faculties, but there is still room for important studies, Holderman believes.

"For example," he says, "the Commonwealth Campuses would be ideal for many areas of educational research, which might be carried out by any of the Colleges."

Representation of these faculties in academic affairs is essential, Holderman believes, and such representation

is already being considered by the University Senate.

Problems in the changeover from General Extension administration to the Commonwealth Campus system remain to be considered and solved, Holderman says, but attention is being given to many of them. Good communication between faculties should aid in making the changeover orderly and effective.

2500 To Get Degrees At Commencement June 6

Approximately 2,500 men and women will be granted degrees at Commencement Exercises on Saturday, June 6.

The exercises will be held at Beaver Field if the weather is favorable at 10:30 a.m. In the event of rain, two separate exercises will be held, both at Recreation Building, the first at 10:30 a.m. and the second at 2 p.m.

If separate exercises are held, graduates of the Colleges of Business Administration, Home Economics, the Liberal Arts, and Physical Education and Athletics, will receive degrees at the first exercise. Graduates of the Colleges of Agriculture, Chemistry and Physics, Engineering and Architecture, and Mineral Industries will attend the later ceremony. Candidates for advanced and associate degrees will attend the ceremonies with baccalaureate candidates of the same colleges.

Of the approximately 2,500 to receive degrees, nearly 1,800 are candidates for bachelor's degrees, over 250 for advanced degrees, and over 450 for associate degrees.

Commencement speaker will be John A. McCone, chairman of the U.S. Atomic Energy Commission.

Senior night will be held at 8 p.m., Friday, June 5 in Schwab Auditorium. Dr. Kent Forster, professor of European history, will give the faculty talk. The Valedictory will be given by Dorothy G. Becker, Rahway, N.J., and the Salutatory by Frank W. Warner III, Mablehead, Mass. There will also be the presentation of Class Honors and the Class gift.

Senate Minutes

(Continued from last week's issue)

E. P. Nye, Chairman of the SENATE COMMITTEE ON STUDENT AFFAIRS, presented the report which had been distributed with the agenda as Appendix "E". The report is as follows:

In order to resolve the conflict between rules and practice which prevails at the present time with respect to the responsibility for the supervision of student communications media, the following revision of Rule Y-8 is proposed:

The direct supervision of the operation of WDFM and of each major student publication shall be vested in a board of directors to be composed of responsible student and faculty members. The method of selection of this board shall be specified in the charter which authorizes its formulation.

It is considered that the power of approval and of revocation of charters of student organizations that is delegated to the Committee on Student Affairs reserves ample authority for the faculty, and still allows the organizations themselves a desirable degree of autonomy. There appears to be no vital function to be performed by the defunct Board of Student Publications. We, therefore, propose to move at the June meeting of the Senate that the By-Laws be amended by deletion of sub-section n of section 1, Article 2.

The problem of establishing financial responsibility of campus political organizations has been studied by the committee for over a year, following the unhappy aftermath of the demise of LION party in 1958. The transient nature of these organizations and the lack of membership identification and continuity has prompted the committee to propose the following addition to the Y-rules:

Each political party chairman on the main campus of the Pennsylvania State University will have complete responsibility for his party's finances.

The University shall withhold this student's diploma if notified before his graduation that there is an outstanding debt incurred by either him or his party, during his term of office.

If the creditor has not presented this information to the University before the time of this student's graduation, the University is absolved of all responsibility.

Each newly elected chairman shall be notified in writing of this rule by the Elections Commission at the time of his election.

The attached codification of Disciplinary Actions is presented for the information of the Senate. It represents the present working interpretation and application of the rules of both the Student Judicial Groups and the University Senate.

Techniques Used in Cases of Social Offenses and Acts of Academic Dishonesty by Undergraduate Students at The Pennsylvania State University

1. Educational Interview. The inappropriate actions are discussed in the expectation that more appropriate behavior may be developed in the future. Record made of interview by interviewer. This may be residence hall counselor, dormitory hostess or any member of the staff of the Dean of Men or the Dean of Women.
2. Official Warning. This involves discussion of specific forms of misbehavior and the promise of more severe disciplinary action in case behavior is not controlled or changed in a positive manner. A record is kept in the appropriate dean's office. Follow-up interviews may be used.
3. Probation With Student Judicial Groups. Student judicial group which has jurisdiction (depending on sex, residence area, etc. of the offender) discusses the inappropriate actions with the student involved and specifies a period of time in which the student will be required to show positive changes in attitude and behavior. These judicial groups retain records of the circumstances and regard further appearance before the board as cause for more severe disciplinary action. Actions of the Judicial groups are reported to the appropriate dean who confirms the action and customarily informs the student's parents. (Parents of students over 21 are not informed except in cases of serious offense).

Actions of the Judicial groups may be appealed to the Subcommittee on Discipline of the Senate Committee on Student Affairs by either the student or the office of the Dean of Men or Women. Serious offenses such as those involving

morals are referred directly to the Subcommittee on Discipline.

4. Probation With the Office of the Dean of Men or Dean of Women. This is similar to item 3. A specified period of time and a set number of interviews may be specified. Parents are customarily informed.
5. Restriction of Social Privileges.
 - a) Men students: Restrictions to residence area for specified period of time (except for classes). May be required to report to counselor or judicial group member at specified times.
 - b) Women students: W. S. G. A. penalties following are listed in order of severity.
 - 1) One 1 a.m. removal: No dating from 6:30 p.m. until the next morning; must keep weekday hours; must be taken on a Saturday night; must sign in.
 - 2) Lenient weekend campus: No dating from 6:30 p.m. Friday to Monday morning. Must keep weekday hours. Must sign in with hostess.
 - 3) Strict weekend campus: No dating from 6:30 p.m. Friday until Monday morning; not allowed off campus, at the HUB or Snack Bar; must sign in with the hostess at 6:30 each night, after which the student may not leave the residence hall.
 - 4) Strict campus: No dating during the specified period; must sign in with the hostess at 6:30 p.m.; not permitted off campus, at the HUB, or Snack Bar. Girls living in town are permitted to travel only from campus to residence.
6. Restitution — voluntary or required restoration in kind or by money of whatever loss or damage to any person or to the University has been caused by the student's misbehavior.
7. Disciplinary Probation. This is an action imposed either (1) by joint action of the offices of the Dean of Men or the Dean of Women and the Dean of the College in which the student is enrolled; or (2) by the subcommittee on Discipline of the Senate Committee on Student Affairs in an effort to emphasize strongly the necessity of positive changes in attitude and behavior. In accordance with Senate Regulation for Undergraduate Students Q-1, a student on disciplinary probation shall not participate in any extracurricular activity of the University, except that he may continue to be an ordinary member of any organization without holding any office or committee memberships whatsoever, and without taking an active part in its activities. Record of this probation is made on the student's official transcript and remains there until petition for its removal is granted. Parents customarily informed.
8. Suspension. This action involves removal of the privilege of attending the University for some specified minimum period of time by the Subcommittee on Discipline. It is imposed with the understanding that at the end of this period of suspension the student will be returned to good standing upon approval of the Subcommittee on Discipline. Disclosure of the Student's activities during the period of suspension together with references from at least two people closely associated with the student involved is required for committee consideration. Notation of suspension is made on the student's official transcript and this notation cannot be removed by petition before the eighth semester. Parents are informed in all cases and readmission is based on majority action of the Subcommittee on Discipline. Certain variants of the action of suspension are employed by the Subcommittee on Discipline.
 - a) Suspended Suspension. This means that the Subcommittee agrees that suspension is warranted but action is withheld pending careful evaluation of student's behavior during a disciplinary probation period specified by the subcommittee. If the student is involved in any further offense summary imposition of suspension action is made by the office of the appropriate dean. Notation on transcript and parent notification as above.
 - b) Deferred Suspension. This is a suspension action which becomes effective after a specified future date. Used most often toward end of semester to avoid the financial penalty to parents which an immediate suspension would entail. Probationary status, notation and parent notification identical to suspension.
 - c) Short Suspension. This involves the withdrawal of the privilege of attending the University for a period of a week or less within a semester by action of the Subcommittee on Discipline. Student is required to leave the campus, have parents confirm arrival at home and present parent's approval that he return. Instructors are in-

formed by college dean's office, and the student is fully responsible for academic work during the period of suspension. Make-up examinations and assignments will be at the discretion of the instructor. Notation made on official transcript.

9. Dismissal. This means the withdrawal of the privilege of attending the University with no promise (implied or otherwise) that the student may return at any future time. Permanent notation is made on official transcript and parents are notified in all cases. Reinstatement is possible under the provisions of Senate Rule A-7.
10. Withholding of Degree. This action is taken by Subcommittee on Discipline in reference to a degree candidate who is involved in offenses after completing course requirement and while awaiting the conferring of his degree. The length of time that the degree is to be withheld is usually specified at the time action is taken. Parents are notified in all cases.
11. "Hold" on Records. This action prevents the release of official transcripts to either the student or to other institutions without prior approval of the Dean of Men or the Dean of Women. It is usually used in regard to individuals who have withdrawn from the University (or who have failed to return for the following semester) in the midst of questionable circumstances. The student and his or her parents are informed with the understanding that the "hold" will not be removed until the obligations of the student have been met or until he or she has performed creditably over a sufficient period of time to warrant confidence in future behavior. The student is informed that if transfer to another institution is under consideration before release of the "hold", a transcript will be sent with an accompanying notation from the dean's office.
12. Academic Dishonesty. Students who are found guilty of academic dishonesty* may be disenrolled from the course by the course instructor with the concurrence of the head of the department in which the course is offered. In such cases a grade of F will be recorded for the course. (Rule M-10). Other actions which may be taken are imposed by the Committee on Academic Discipline of the student's college. These actions may be any of those described in items 2-11. In all cases the action taken shall be reported to the instructor concerned and the dean of the student's college. If a student is found guilty, the student's adviser, his parents and the Dean of Men or Women shall be notified. The Dean of Men or Women shall notify the registrar of any notation to be made on the official transcript, shall make notation on the permanent personnel record and shall see that publicity is given to the incident without use of the student's name.

He called attention to the list of *Techniques Used in Cases of Social Offenses and Acts of Academic Dishonesty by Undergraduate Students at The Pennsylvania State University*, which was presented as an information item only. Mr. Nye stated that the Committee wished to recommend the amendment of Rule Y-8 as follows:

The direct supervision of the operation of WDFM and of each major student publication shall be vested in a board of directors to be composed of responsible student and faculty members. The method of selection of this board shall be specified in the charter which authorizes its formulation.

He moved the adoption of this amendment. The motion was second and passed. Mr. Nye called attention to the sentence in the report which states

We, therefore, propose to move at the June meeting of the Senate that the By-Laws be amended by deletion of sub-section n of section 1, Article 2.

He wished this considered as official written notice of the proposal to amend the By-Laws. Mr. Nye recommended the adoption of the additions to the Y-rules as printed above. The motion was seconded. Following discussion by R. W. Brewster, Jessie R. Bernard, B. A. Whisler, E. B. VanOrmer, J. H. Ferguson, E. P. Nye, F. J. Simes, R. B. Saylor, D. H. McKinley, and R. H. Water, Mr. Waters moved that the proposed additions to the Y-rules be referred back to the committee. The motion was seconded and passed.

J. F. Bradley, Chairman of the SENATE COMMITTEE ON SCHOLARSHIPS AND AWARDS, presented the report which had been distributed at the meeting. He stated

* Rule O-3 states in part . . . "Any case of dishonesty shall be reported to the Student's Dean, through the department head, and the Dean of the College in which the dishonesty was committed".

that the John W. White Medal is to be awarded to the student with the highest rank in the senior class. This year there was a tie for the honor. Until this year the Evan Pugh Awards were given to the five highest seniors and five highest juniors, assuming the seniors have not already received the John W. White Medal. The Committee this year proposed that the Evan Pugh Awards be given to the top one-half of 1% of the senior class and the top one-half of 1% of the junior class. Mr. Bradley moved that the Senate accept the report of the Committee on Scholarships and Awards. The motion was seconded and passed. The report is as follows:

John W. White Medal

Becker, Dorothy G. (ED)
Young, Carole P. (ED)

John W. White Scholarships (\$600 each)

Wall, John V. (ED)
Warner, Frank W., III (E & A)
Motsay, George J. (C & P)
Greenleaf, Frederick P. (E & A)

Phi Kappa Phi Scholarships (\$50)

Evans, Bonnie Jane (ED)
Bradney, Nancy D. (L A)

LaVerne Wood Thomas Award (\$25)

Drasher, Carl L. (AG)

William S. Thomas Award (\$25)

Hickok, Kenneth H. (AG)

Evan Pugh Scholars

Seniors

Porter, James D. (E & A); McKee, Madge K. (ED); Houghton, David D. (M I); Cryder, Paul M. (B A); Towell, David G. (M I); Goldstein, David (C & P); Clark, William P. (E & A); Fogle, Edgar L. (E & A); Gemmill, Mary A. (ED); Lohrenz, Heather (L A); Young, Frederick D. (E & A); Latshaw, Miriam (ED); Kremer, Ross A. (C & P); Ker, Edward R. (AG); Brewer, David M. (E & A).

Juniors

DiJoseph, Lois. (ED); Meck, Charles R. (ED); Duross, Darla (ED); Elms, Alan C. (ED); Bickham, William (E & A); Floegel, Elizabeth (L A); Freeman, Joan (L A); Bongiorno, Bernice E. (L A); McCreary, Donald (B A); Sponseller, Max (AG); Breisch Phyllis (ED); Troman, Barbara A. (C & P); Curtis, Carroll A. (AG); Mares, Erika A. (L A); Reinhard, Ronald J. (C & P).

New Business

J. D. Ridge stated that the College of Mineral Industries had a difference of opinion with the Senate Committee on Courses of

Study, as outlined in the memorandum addressed to Members of the University Senate and on file in the office of the secretary. The College wished to ask for a vote of the Senate on this controversy. J. D. Ridge outlined reasons why the College of Mineral Industries does not feel it can comply with requirements set up by the Senate Committee on Courses of Study with regard to proposals No. 119, Changes in the Curriculum in Ceramic Technology, and No. 177, Changes in the Curriculum in Mining Engineering, which were not brought to the Senate by the Courses of Study Committee. He moved that proposals No. 119 and No. 177, as presented to the Senate Committee on Courses of Study, be approved by the Senate. The motion was seconded. Following discussion by B. A. Whisler (on behalf of J. Marin), P. A. Shelley, J. A. Sauer, G. W. Brindley, R. K. Murray, H. L. Hartman, R. E. Larson, A. J. Shaler, and H. A. Cutler, the Chairman called for a vote on Mr. Ridge's motion that proposals No. 119 and No. 177 be approved by the Senate. The motion was defeated by a vote of 74 to 72. C. R. Kinney asked if he could request a re-count of the votes. The Chairman informed Mr. Kinney it would require a two-thirds majority of the Senate to overrule the Chair's acceptance of the vote. B. F. Howell, Jr., moved that a roll call vote be taken. The motion was seconded and defeated 92 to 63.

G. K. Gillan presented the following motion for consideration at the next meeting of the Senate.

That a standing or special committee of the Senate be requested to devise specific procedures for implementation of the Senate policy embodied in the Callenbach (Secretary's note: Educational Policy Subcommittee on General Education, E. W. Callenbach, Chm., October, 1954) report.

This motion was presented at the request of the Senate Committee on Courses of Study, of which Mr. Gillan is a member. The Chairman stated that the motion would be placed on the agenda for the next meeting.

The Chairman stated that the next meeting of the Senate would probably be held during the week of May 25, 1959. The Chairman called attention to the fact that annual reports of all committees are due, in duplicate, at the next meeting. The meeting adjourned at 6:04 p.m.

Robert G. Bernreuter
Secretary

SPECIAL NOTE: The next regular meeting of the Senate will be on Wednesday, June 3, 1959, in Room 121 Sparks Building. The agenda will be distributed on May 20, 1959.

Telephone Directory Cards Needed Soon

Departments and individuals are reminded that the cards for the new telephone directory should be returned to the office of the University's Supervisor of telephones, Wilbur F. Diehl, as promptly as possible. His office is in Room 318, Old Main.

Diehl points out that many cards have been returned and have been filled out correctly, but there are a number of areas from which no cards have been received and some individuals have failed to return cards or to give necessary information.

The cards will be used to develop the directory which will go into effect when the new telephone system is launched on August 16.

Diehl especially points out that home addresses and telephone numbers and other information should be given wherever it is possible to do so. If not, he suggests that the word "none" be placed in any block which cannot be filled out so that his office knows that the person noted the question.

It is emphasized that cards should be filled out for new employees and also for employees terminating, so that this information will be known by those making up the directory. If an employee transfers from one department to another within the University, the department from which the employee is transferring should send in a card for "termination" and the other department should send a card for "new employee."

Departments are also reminded that cards should be made out for an employee even though he is not to be listed in the directory. By this method, a centralized file of all employees will be maintained.

Diehl points out that in the block "rank and title" only one position should be indicated since this is all the information which can be handled by the machines which print the data. If a person wishes to have both titles indicated, he should make out two cards.

June To Bring Many Groups To Campus

As usual, June will be a busy month on campus for meetings of off-campus groups, seminars, short courses, and institutes.

Highlights of the month is the annual Alumni Institute and Class Reunions from June 11 to 14, which some 1,100 persons are expected to attend.

The largest group anticipated in the month is the Future Farmers of America, with some 1,700, which meets at about the same time as the Future Homemakers of America, which will enroll 1,200.

Not including Commencement Exercises on June 6, a total of 42 events will bring an estimated 10,000 people to the campus.

Weber To Direct Colorado Institute

Dr. Robert L. Weber, associate professor of physics who is associated with the Science Institute for Teachers and also the Summer Institute sponsored by the National Science Foundation, will direct the Summer Science Institute at Colorado State University this summer. This program is also sponsored by the NSF.

Trustee Election June 4

The annual election of agricultural and industrial delegate trustees will be held in the Hetzel Union Building on Thursday, June 4. The attention of the faculty and staff is called to the fact that under the charter, no employee of The Pennsylvania State University may serve as a delegate at this election.

Shaler Granted Year's Leave

Dr. Amos Shaler, head of the department of metallurgy, has been granted a year's leave of absence to do research in powder metallurgy at the laboratories of European Research Associates, S.A., sponsors of his research. He will have headquarters at Brussels, Belgium, but will travel extensively, visiting industrial laboratories and metallurgy departments of universities in western Europe.

University In Book

The University will be represented in a new book titled "College: The Life of a Student" by Jack Engeman to be published early in June by Lothrop, Lee and Shepard Co., Inc. A book of photographs, with explanatory text, it portrays life in American colleges today.

Research Films Listed In New Foreign Catalogue

The A-V Aids Library has obtained a copy of the INTEGRAL CATALOGUE OF SCIENTIFIC FILMS, Edition 1958, published by the Institut Fur Den. Wissenschaftlichen Film, Göttingen, Germany.

The catalog lists research films in anatomy, physiology, bacteriology, psychology, veterinary surgery, agriculture, forestry, fishery, ethnology, German folklore, botany, zoology, geology, geography, astrophysics, meteorology, mathematics, physics, mineralogy, chemistry, "technics", criminology, and physical training.

Faculty members are invited to examine the list in Room 7, Pattee Library.

Senate Meets June 3

The University Senate will meet on Wednesday, June 3, in Room 121, Sparks Building, at 4:15 p.m.

Calendar

Friday, May 29

University offices closed in observance of Memorial Day.

Saturday, May 30

Varsity tennis, versus Pittsburgh, 2 p.m.

Sunday, May 31

Chapel Service, 10:55 a.m. Dr. Luther Harshbarger, University chaplain.

Tuesday, June 2

Final examinations conclude, 5:30 p.m.

Wednesday, June 3

Senate meeting, 4:15 p.m., Room 121, Sparks Building.

Thursday, June 5

Mineral Industries Colloquium, 4:10 p.m., Room 24, Mineral Sciences Building. Dr. Robert F. Schmalz, assistant professor of geology, on "Mineral Resources of the Sea."

Saturday, June 6

Commencement exercises.
College of Home Economics Coffee Hour, 8:30 a.m. to 9:30 a.m. to honor graduating students and their families.

Journalism Teachers To Study In Summer

Six of the 140 high school journalism teachers chosen for special grants provided by the Newspaper Fund, Inc., will study at the University this summer. Others will study at 36 different colleges.

The grants were made possible by a \$75,000 gift from the Wall Street Journal to interest more youths in journalism career. The teachers will take courses such as journalism history and ethics, basic reporting, newspaper makeup, publishing of school annuals, and advertising.

Assigned To Air ROTC

Capt. William K. Rudewick has been assigned as assistant professor of air science. A graduate of Millersville State Teachers College with a master's degree from George Washington University, Capt. Rudewick comes to the University from the Office of Special Investigations, Headquarters, U.S. Air Forces in Europe, at Wiesbaden, Germany.

Belasco Directs Institute

Dr. Simon Belasco, associate professor of Romance languages, will serve as director of linguistics of the Foreign Language Summer Institute at Colgate University, June 29 to Aug. 7. Seventy high school teachers of French, Spanish, and German will attend the Institute.

Two Programs Set For Summer Artists Series

The Summer Artists Series will include programs by the piano team of Luboshutz and Nemenoff and by the Philadelphia Brass ensemble.

The piano duo will present a program on June 17 in Schwab Auditorium, replacing the Robert Joffrey Ballet Co., originally scheduled.

On August 2, the Ensemble will play either on the terrace of the Hetzel Union Building or in the ballroom.

Instructions Given For Reporting Semester Grades

The following information has been provided by the Dean of Admissions for reporting of grades for the Spring Semester.

1. Grades for all students, including graduate students, who are to receive degrees at the June Commencement exercises must be reported to the Recorder's Office, Room 4, Willard Building, not later than 9:00 A.M., Wednesday, June 3, 1959.
2. Grades for all other students, including graduate students must be reported to the Recorder's Office, Room 4, Willard Building, within 48 hours after the final examination or, in case of research grades, not later than 12:30 p.m., Friday, June 5, 1959.
3. Final Examinations will end 5:30 p.m., Tuesday, June 2, 1959.
4. For courses dropped: A grade of W and the signature of the instructor should be indicated on the grade card for each student who has been authorized to drop a course after the first four weeks of the semester. See Rule M-4, Regulations for Undergraduate Students, 1958-59. The four-week period for this semester ended at 12:00 noon, Saturday, February 28, 1959.
5. For student withdrawals: when a student officially withdraws from the University within the first four weeks of semester a grade of W shall be reported for each course. If a student officially withdraws after the first four weeks of a semester each instructor shall enter, in parentheses after a grade of W on a grade card, a grade which represents the quality of the student's work up to the time of his withdrawal. [Example: W(A), W(B), W(C), etc.]
6. Research grades: A grade of H, P, F, or R may be reported for all thesis research-in-progress (600 or 610).
7. Reporting failures: It will not be necessary for each instructor to telephone failing grades to the office of the student's dean as in previous semesters.

Summer Loan Funds

A supplemental allotment of National Defense Education Act loan funds has been received by the University.

The funds may be used for making commitments to eligible students, present and prospective, during the 1959 Summer Sessions and the 1959-60 school year.

To be eligible for a Summer Session loan, a student must have been in attendance full-time in the preceding regular session or must plan to attend full-time in the following regular session.

Students should apply for loans at the office of the Dean of Men or the Dean of Women.

Items of Interest

Articles and Papers

Arnulf Muan, metallurgy, papers at the 61st annual meeting of the American Ceramics Society.

R. G. Weaver, English, in collaboration with H. P. Zelko, speech, a pamphlet, "Communicating with your Employees," issued by the Society for Personnel Administration.

P. T. Baker, anthropology, a paper titled "Racial Taxonomy and Cold Adaptation," before the meetings of the American Association of Physical Anthropologists.

D. B. Swegan and H. L. Thompson, physical education, in April and May issues of "Scholastic Coach," articles on "Experimental Research in Swimming" and "Experimental Research in Football."

B. P. Taylor, Penn State Foundation, two articles in professional journals: "Making the Case for Gifts for Education" in the American Alumni Council News, and "A Policy, A Study, and A Plan" in Pride, the publication of the American College Public Relations Association.

J. A. Dixon, chemistry, a paper before the 5th World Petroleum Congress in New York on June 3, entitled "Physical Properties and Molecular Structure in Fused Polycyclic Hydrocarbon Systems."

The Arts

George Pappas, art and art education, an exhibit of ten paintings and eight drawings at Kanegis Gallery, Boston, May 23-June 11.

Elected or Appointed

Andrew Kafka, English (Hazleton Campus), appointed to the State English Committee re-examining the English curriculum in the public schools.

O. E. Lancaster, engineering education, elected Associate Fellow of the Institute of Aeronautical Sciences.

O. R. MacKenzie, business administration, elected to membership committee of the American Association of Collegiate Schools of Business.

W. H. Gotolski, civil engineering, elected vice-president, Central chapter, Pennsylvania Society of Professional Engineers.

Books

A. L. Harnett, physical education, with J. H. Shaw, Syracuse University, "Effective School Health Education," published by Appleton-Century-Crofts.

Lectures and Talks

Stanley Weintraub, English, May 26 before the New York Chapter, Shaw Society of America, on "Apostate Apostle: H. L. Mencken on G.B.S."

R. H. Ramsey, Industrial Reference Division, a talk before the Bellefonte Kiwanis Club, outlining the work of the Division.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Workshop Has International Flavor In Students, Content

IT is appropriate that the Summer Workshop in Education for International Understanding generally has a number of visitors or enrollees from foreign countries.

"We seldom lack for an international flavor in the course," says Dr. Kent Forster, professor of history, who is also director of the Workshop. Co-director is Dr. Rose Cologne, professor of education.

The Workshop (Int. U. 400) is an annual Summer Sessions course which this year starts on June 29 and concludes on Aug. 7. It is intensive, in that classes run daily from 9:30 to 12:20 and from 2 to 4:50 p.m.

The basic objectives are (1) to develop an objective framework the student can apply to world affairs; and (2) to give the student an acquaintance with some of the interdisciplinary resources he can use to understand the world scene.

"In other words," Forster adds, "we are not so much interested in attempting to solve the world's problems, which we certainly can't do anyhow, as we are in giving a foundation on which these problems can be understood."

The mechanics of the course involve at least three important techniques: (1) lectures by leaders in the fields contributing to international understanding; (2) a trip to New York, with a visit to the United Nations and conferences with foreign government representatives; and, (3) free discussions based on selected readings.

This year Paul Hoffman, director of the Special Fund of the United Nations, will be a guest lecturer, as will Dr. Leonard S. Kenworthy, professor of education at Brooklyn College, who has in several past years directed the Workshop. Others will be announced soon.

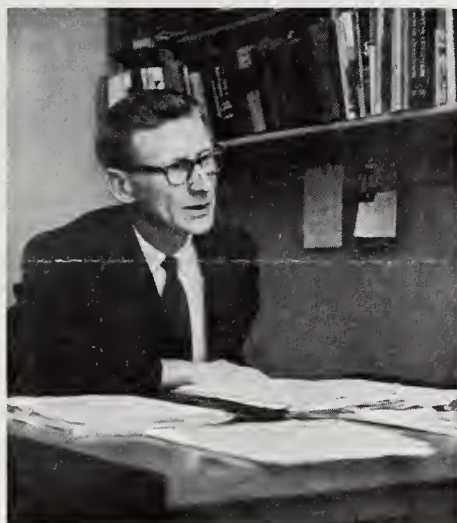
The first part of the course is a study of the real and alleged international problems, with discussions on:

How contemporary is the present world crisis?

Is it man's nature to be warlike?

Is nationalism a curse or a blessing?

Is the distribution of economic resources a seedbed of conflict?



Kent Forster

Has science made war obsolete?

Is ideological coexistence possible?

"We do not give just one answer," says Forster, "but several possible answers to every question. We aren't trying to indoctrinate but to inform and to stimulate serious thought."

Text for the course is "World Affairs Problems and Prospects," which Forster co-authored with Drs. Elton Atwater, Neal Riemer, and William Butz.

Penn State's course differs from that of many other institutions, Forster believes, in that it does not limit itself to a specialized area of world affairs but prepares for an understanding of world affairs wherever they are.

The three-day New York trip is de-

(Continued on next page)

Dividends Paid By Scholarships

STUDENTS in the graduating class who held scholarships certainly justified the faith placed in them by their benefactors, according to George N. P. Leetch, coordinator of scholarships.

"Of the 125 students on the honors list at commencement tomorrow," Leetch explains, "56, or about half, have held scholarships at sometime during their careers."

A four-year average of 3.4 is necessary to graduate with honors.

The 56 scholarship holders on the honors list represent about 26 per cent of all those holding scholarships in the 1959 class.

"It should be borne in mind," Leetch adds, "that these scholarships are given to students for reasons of need, as well as for high grades."

Both the valedictorian — Dorothy G. Becker, in education — and the salutatorian — Frank W. Warner, III, in engineering science — held Alumni Memorial Scholarships, and both graduate "with highest distinction."

Of the 18 graduating "with highest distinction," 11 were scholarship holders, and of the 39 on the "high distinction" list, 22 were scholarship holders.

Calendar

Friday, June 5

Mineral Industries Colloquium, 4:10 p.m., Room 26, Mineral Sciences Building. Dr. Robert F. Schmalz, assistant professor of geology, on "Mineral Resources of the Sea."

Saturday, June 6

Commencement exercises, 10:30 a.m., Beaver Field. In case of rain, 10:30 a.m. and 2 p.m., Recreation Building.

College of Home Economics coffee hour for graduates and their families, 8:30 a.m. to 9:30 a.m.

Sunday, June 7

Chapel Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Charles F. Minneman.

Thursday, June 11

Alumni Reunion program begins, continues until Saturday.

Good Experience In Ten Week Program At Mateer Playhouse

EVEN at this early date there are ample indications that the University's Mateer Playhouse at Standing Stone again will demonstrate the unique value of summer theatre in the teaching experience, says Dr. Walter H. Walters, head of the department of theatre arts.

"We believe," Dr. Walters adds, "that we will have a better student program than in our first year, and that the actors and actresses and all the other participants will enjoy the experience even more than they did last year.

This year, students and professional actors will be housed in Hoyt Hall on campus and will rehearse there. Buses will take the entire company to Standing Stone each afternoon.

The company will include two actresses and two actors known here from past performances, four student apprentices from the American Theatre Wing in New York, and students not only from Penn State but other universities enrolled in Theatre Arts 404 and 470.

"Welding these diverse talents into an effective production team seems like a formidable task," says Dr. Walters, "but this is what makes our plan unique and meaningful."

Max Fischer, instructor in acting of the Theatre Wing, will again direct at Standing Stone. Esther Benson and Charlotte Jones, both active in off-Broadway plays and in television since last summer at the Playhouse, will be on hand. Leon Stevens will leave the highly successful off-Broadway play "The Geranium Hat" to rejoin the Playhouse. Ronald Bishop, who performed at Standing Stone during the 1957 season, also will appear.

The complete ten-week program includes two plays which will run for two weeks, plus six plays for a week each. All of the plays are well known, with Anton Chekhov's "The Cherry Orchard" presenting the biggest challenge.

"Summer theatres don't often take on a play of this magnitude," comments Dr. Walters.

Already the house has been sold out for two nights, to the American Viscose Co. of Lewistown and to the University's Reading Conference. Other groups have reserved large blocks of tickets.

Season tickets at \$17 and \$13 are now available and will be sold until June 27, when the first play concludes. Single night ticket rates for Monday through Thursday are \$2.25 and \$1.75 and for Friday and Saturday \$2.75 and \$2.25.

Tickets for single nights are available now at the office of the department of theatre arts in Schwab Auditorium and will be sold at the Playhouse starting June 15. Phone or mail orders will be accepted at either place. Also handling tickets are the State College Hotel, the Book and Record Shop in Altoona, and Danks and Company in Lewistown.

The complete schedule of plays is as follows:

Desire Under the Elms, by Eugene O'Neill, June 22-27.

Three Men on a Horse, by Holm and Abbott, June 29-July 4.

The Spider's Web, by Agatha Christie, July 6-11.

The Barrett's of Wimpole Street, by Rudolph Beiser, July 13-18.

Cat on a Hot Tin Roof, by Tennessee Williams, July 20-Aug. 1.

The Diary of Anne Frank, by Frances Goodrich and Albert Hackett, Aug. 3-15.

The Cherry Orchard, by Anton Chekhov, Aug. 17-22.

Nude With Violin, by Noel Coward, Aug. 24-29.

as related to that particular problem.

Students in the course represent several fields although teachers and school administrators have been a major element. Some will probably be from a foreign country, which in itself is good for the discussions, and frequently foreign visitors to the campus join the Workshop.

"By the middle of the Workshop, after the initial reluctance has worn off, the students become quite frank in their discussions," says Dr. Forster. "We're sure this is good for all concerned."

Forster is understandably international-conscious. He conducted summer seminars in Europe for American students in 1948-50 and 1952. He was a Fulbright lecturer in history in Finland during the 1956-57 academic year. Much of his writing and research has been in European diplomacy and history.

Retirement Of Five Announced

Retirements in the near future of five members of the faculty were reported to the Board of Trustees today.

Dr. J. Harris Olewine, professor of organic chemistry, on Sept. 1. He joined the staff in 1917 as instructor in chemistry after two years as graduate assistant in chemistry at the University of Illinois. He obtained his bachelor's degree from Penn State in 1915, his master's from the University of Illinois in 1917, and his doctor of philosophy degree from Penn State in 1936. He has been pre-medical advisor for many years. In 1953 the students and faculty of the College of Chemistry and Physics elected him "Penn State's Chemistry-Physics Professor of the Year" and presented him with a plaque. He is a member of the American Chemical Society, Phi Lambda Upsilon, Alpha Chi Sigma, and Delta Upsilon. He retires with the rank of professor emeritus of organic chemistry.



J. H. Olewine

Chauncey O. Ridenour, professor of English literature, will retire with emeritus rank on July 1. A graduate of Ohio University in 1920, he obtained his master's degree from Penn State in 1925. He was a teacher in the public schools of Ohio from 1913 to 1916 before being named instructor in English at Penn State in 1920.

Ernest Axman, associate professor of electrical engineering, will retire on July 1 after serving on the faculty since 1923, when he came to Penn State as an instructor in electrical engineering.

Dr. Frank A. Butler will retire July 1 with the rank of professor emeritus of education. A graduate of Oshkosh State Teachers College and of the University of Wisconsin, he earned both his master's and doctor's degrees from the latter institution. He served in public school systems in Wisconsin from 1913 to 1925 and joined the Penn State staff in 1928 as assistant professor of education. He is the author of numerous articles in education journals and of the book, "The Improvement of Teaching in Secondary Schools."

Dr. Beatrice L. Hagen will retire July 4 with the rank of professor emerita of mathematics after serving on the faculty since 1931. A graduate of the University of Kansas in 1920, she earned master's and doctor's degrees from the University of Chicago. Before coming to Penn State she taught in high schools and colleges in Kansas, Missouri, and Nebraska.

Bulletin To Continue

With the exception of the last two Fridays in June, the *Faculty Bulletin* will be published all summer.

Workshop —

(Continued from page one)

signed to give the student a first-hand view of international affairs at work. Although the General Assembly of the United Nations is not in session, interviews are conducted with various types of foreign missions to this country, and private meetings with representatives of the U.N.'s various organs are held.

"There is great value in having the students hear from the people on the firing line directly," says Forster.

In addition to the usual examinations, the students must prepare a "position paper" on some contemporary world affairs problem. These Forster likens to the position papers of the U.S. State Department which are ten-page affairs giving salient facts about an international problem with three solutions appended. These solutions are later judged to form the basis of our policy

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

46/35

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.



Distinguished teachers for 1959 are (l. to r.) Kent Forster, Eugen C. Bischoff, Della Avery, Harold I. Tarpley, James W. Dunlop, Mary L. Willard, R. Hadly Waters, and Paul H. Margolf. Missing was H. Mauzee Davis.

Nine Honored At Commencement

Dr. Kent Forster, professor of European history, received the second annual President's Award for Superior Teaching at Commencement Exercises Saturday, June 6. The award was given to Dr. Kinsley R. Smith, professor of psychology, last year.

Forster was given a plaque and a check for \$1,000. The citation noted his "devoted service as a conscientious and outstanding member of the teaching faculty."

Eight other members of the faculty were issued citations for excellence in teaching at the Commencement Exercises. They were:

Della J. Avery, associate professor of child development and family relations of the College of Home Economics. Miss Avery joined the faculty as an instructor in 1937, after serving previously at Western Maryland College, Temple University, and in high schools in Pennsylvania and Arkansas. A native of Philipsburg, Pa., she received a diploma in home economics and a bachelor's degree from Temple University and the master of science degree from Penn State. She has also taken work at Cor-

nell and Chicago universities.

Eugen C. Bischoff, professor of physical education, who retires July 1, has been on the staff of the College of Physical Education and Athletics since 1926 and has been director of the intramural program since 1936. A graduate of Oberlin College, he was granted the master of arts degree from Ohio State University in 1937. He taught for two years at Oberlin before coming to Penn State. He was born in Lorain, O.

Dr. H. Mauzee Davis, professor of chemical metallurgy, is a graduate of Oklahoma University, where he also obtained his master of science degree. He was granted the doctor of philosophy degree in 1934. He joined the faculty in 1936 and was named professor in 1951.

James W. Dunlop, professor of music education, was born in Morris Run, Pa., graduated from Blossburg, Pa., high school and obtained his bachelor of science degree in public school music from Mansfield, Pa., State Teachers College. He was also granted the master of music degree from the University of Michigan. He was supervisor of

music at Mt. Jewett and Emporium and director of music at Farrell before joining the Penn State staff in 1947. He is director of the Penn State Blue Band.

Paul H. Margolf, professor of poultry husbandry, is a native of Morrisville, Pa. He came to Penn State in 1922 as an employee in the poultry plant, was named superintendent of the plant in 1923 and enrolled as a special student. In 1935 he was granted the bachelor of science degree. In 1937 he was named instructor in poultry husbandry, but prior to his appointment had been teaching inmates at Rockview Penitentiary to prepare for an occupation after their release from prison. In 1954, he was honored by the Poultry Science Association as the outstanding teacher in his field.

Harold I. Tarpley, professor of electrical engineering and director of the Computer Laboratory, was born in Kansas and received the bachelor of science degree in electrical engineering from Kansas State College in 1922. He was granted the master of science degree by the University of Illinois a year later. He joined the Penn State staff in 1923. In 1945-46 he was visiting associate professor at Massachusetts Institute of Technology.

Dr. Richard Hadly Waters, professor of transportation and business analyst for the Bureau of Business Research, was born in Philadelphia and attended the University of Pennsylvania to receive all three degrees. He served on the faculties of Juniata College, Huntingdon, and Elmhurst College, Elmhurst, Ill., before coming to Penn State in 1933.

Dr. Mary L. Willard, professor of chemistry, was born on the campus, the daughter of Dr. Joseph Willard, professor of mathematics for many years. She obtained bachelor's and master's degrees from Penn State in chemistry and doctor's degree from Cornell University. Aside from a year of service at Cornell in 1926, she has been at Penn State since 1921, when she was named assistant in chemistry.

Each of these eight teachers was awarded \$100 in addition to the citation.

Senate Minutes

Minutes of the Meeting of June 3, 1959

The University Senate met at 4:15 p.m. on Thursday, June 3, 1959, in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the May 7 meeting were approved as printed in the Faculty Bulletin for May 22 and May 29, 1959. 155 senators signed the roll.

Communications From University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: Lois B. Hyslop (Neal Riemer, H. W. Dunne (G. E. Burch), M. N. McGeary (J. H. Ferguson), A. W. Vander-Meer (W. F. Prokasy), Hummel Fishburn (W. P. Campbell), Joan Nessler (Evangeline Michalson), H. N. Cope (W. T. Nearn), A. D. Brickman (B. L. Jenks, Jr.), L. T. Bissey (J. N. Hoffman), and H. D. Wright (Christopher Crowe).

Letter from the secretary of the Graduate School Faculty naming the newly elected senators for 1959-62 was read as follows: *Graduate School* — M. Virginia Britton, Iline Fife, D. G. McGarey, R. W. Taft, Jr.

New Senators

J. B. Washko will replace H. W. Frings as an elected senator in the College of Agriculture for the 1959-62 term.

Della Avery will replace Elizabeth Hester as an elected senator in the College of Home Economics for the 1959-62 term.

Christopher Crowe will replace H. D. Wright as an elected senator in the College of Mineral Industries for the 1959-60 term.

Announcement

E. B. VanOrmer announced the following programs which will be available at the Pennsylvania State University.

1. National Science Foundation Cooperative Graduate Fellowship Program for 1960-61.
2. National Science Foundation's Summer Fellowships in 1960 for Former Graduate Teaching Assistants.
3. National Science Foundation's Science Faculty Fellowships. Applications Closing October 5, 1959 and Awards To Be Announced December 7, 1959.
4. National Science Foundation's Senior Postdoctoral Fellowships, Applications Closing October 5, 1959 and Awards To Be Announced December 7, 1959.

Reports of Standing Committees

P. A. Shelley, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A", and the following additions to the April 2 and June 3 reports.

No. 146. Change credits to — 1, Change class hours to — 1.

No. 147. Change credits to — 2, Change class hours to — 2.

No. 430. Change title to — Instrumentation I. Change prereq. to — High School graduation or its industrial equivalent.

No. 431. Change title to — Instrumentation II. Change prereq. to — I E 971 or equivalent.

No. 432. Change number to — I E 973. Change title to — Control Systems I. Change prereq. to — I E 972 or equivalent.

No. 433. Change title to — Control Systems II. Change prereq. to — I E 973 or equivalent.

Mr. Shelley moved that Section 9 A, Items I A, B, and C and the additions as listed above be adopted. The motion was seconded and passed. Mr. Shelley then moved adoption of Section 9 B, Items I A, B, and C. The motion was seconded and passed. The complete report is on file in the office of the secretary.

R. E. Larson, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report which had been distributed with the agenda as Appendix "B". This report of the subcommittee on Speaking and Listening as revised and approved by the Senate Committee on Educational Policy contained the following recommendations:

1. It is recommended that each student in all curricula be required to take and pass Speech 200 unless exempted. Students who fail to do so should be scheduled for remedial work in Speech, the successful completion of which may be offered in lieu of Speech 200.
2. That a procedure be established whereby students proficient in oral communication be encouraged to submit themselves for evaluation and waiving of the Speech 200 requirement.
3. That Spch 200 be modified to require less emphasis on formal speaking, and more emphasis on informal, group speaking.
4. That Speech 200 be scheduled as soon as possible, preferably during the first four

semesters, in order that the benefits derived be useful in the last two years of college.

5. That an experimental evaluation program for Speech 200 be initiated by the Division of Academic Research and Services.
6. That advisors be encouraged to evaluate their own students' oral communication performance, and in the event of defects, to recommend an immediate remedial program with the assistance of the Speech and Hearing Clinic.

Mr. Larson moved that the report be accepted and that the recommendations be adopted. The motion was seconded. There was some discussion as to how to implement recommendation No. 1 in those curricula which are now overloaded. A. J. Shaler moved that recommendation No. 1 be amended by adding the words "or its equivalent" after the words "Speech 200". The motion was seconded and lost. The motion to adopt the recommendations was passed. The complete report is on file in the office of the secretary.

A. W. Hutchison, Chairman of the SENATE COMMITTEE ON EXTENSION POLICY, presented the report which had been distributed with the agenda as Appendix "CC" entitled "Recommended Reconsideration of Status of '800' Courses". He moved adoption of the recommendations in the report as follows:

1. That the Committee on Educational Policy be asked to re-examine the policy regarding Associate degree programs and "800" courses in the light of experience.
2. That the Committee on Educational Policy, in conjunction with the Committee on Courses of Study, be asked to consider replacing the current policy regarding applicability of "800" courses to baccalaureate degrees with a more flexible policy.
3. That in the meantime "800" courses may, with approval of a student's dean, be applied towards satisfaction of elective requirements of his baccalaureate curriculum.

The motion was seconded and passed. The complete report is on file in the office of the secretary.

Mr. Hutchison then presented the report which had been distributed with the agenda as Appendix "D" entitled "The Use of Television in Continuing Education and on the Commonwealth Campuses". He moved adoption of the recommendations in the report as follows:

1. Special non-credit TV programs should be continued administratively, for the time being, in terms of need and the availability of qualified personnel.
2. Experimentation with TV instruction from the University Park Campus to the other campuses should be continued. But such programs should be carefully planned in advance and with the role of the teachers in the other campuses carefully worked out in cooperation with them.
3. The appropriate units of the University should keep in close contact with the technology and economics of TV kinescoping with the expectation of experimenting with the process, particularly for possible use at the commonwealth campuses and in high schools equipped and organized to cooperate with the University in an advanced standing credit program.

The motion was seconded and passed. The complete report is on file in the office of the secretary.

K. L. Holderman, Chairman of the SENATE COMMITTEE ON COMMITTEES, presented the report which had been distributed at the meeting. The report which had had the approval of President Walker is as follows:

Senate Committees 1959-60

ACADEMIC STANDARDS — Brickman, A. D., Chairman; Bowman, J. S., Vice Chairman; Davison, H. M., Decker, W. S., Ford, D. H., Hayes, J. R., Neuberger, H. H., Riebel, J. Jeanne, Speidel, C. M., Sprague, H. R.

ADMISSIONS — Stoner, R. G., Chairman; Goodwin, H. E., Vice Chairman; Anderson, B. G., Burcik, E. J., Hardenbergh, D. E., Harms, Irene, Moyer, J. H., Nelson, C. A., Swegan, D. B., Bernreuter, R. G., ex officio.

ATHLETICS — McGeary, N. M., Chairman; Smith, K. R., Vice Chairman; Chisman, H. H., Niebel, B. W.

CALENDAR AND CLASS SCHEDULE — Whisler, B. A., Chairman; Peikert, F. W., Vice Chairman; Guest, L. F., Read, H. J., Woodring, C. E., Jr., Miller, J. E., ex officio; Weaver, P. C., ex officio; Student, Student.

COMMITTEES — Josephson, D. V., Chairman; Noll, C. I., Vice Chairman; Bixby, P. W., Houghton, Dorothy, Kautz, R. W., Markham, J. W., Perez, L. J., Ridge, J. D., Sykes, C. M. COURSES OF STUDY — Mather, W. G., Chairman; Pierce, C. W., Vice Chairman; Ayres, Ruth, Gillan, G. K., Jones, J. H., McDonald, E. T., Miller, E. W., Ricker, R. R., Saylor, R. B., Dennis, L. E., ex officio; Schilling, H. K., ex officio.

EDUCATIONAL POLICY — Larson, R. E., Chairman; Rackley, J. R., Vice Chairman;

(Continued on page four)

A RESOLUTION

This is the text of a resolution passed by the Board of Trustees at its meeting on June 5, 1959.

WHEREAS, the Commonwealth of Pennsylvania has entered a long period of explosive expansion of its needs for higher educational opportunities for its people, and

WHEREAS, much of the responsibility for meeting these needs has devolved on The Pennsylvania State University, and

WHEREAS, the faculty and staff of the University have been applying themselves with effective diligence to the task of preparing for their expanding responsibilities, and

WHEREAS, the results of such activity already include a 16 percent increase in the use of time during the academic year through the extension of the academic day through the noon hour and the evening hours, and development of full summer programs; a 15 percent increase in space utilization through improved scheduling of classes, and by enlarging class sizes; and improvement in the use of personnel through a 17 percent increase in the student-teacher ratio by an effective application of graduate assistants, closed circuit television, and other teaching aids and adjuncts, and

WHEREAS, these quantitative adjustments have been paced by equally impressive improvements in the quality of the University's academic programs and personnel;

THEREFORE, BE IT RESOLVED, That the Trustees express their approval and appreciation of the adjustments already achieved, and felicitate the faculty and staff on their constructive dedication to a difficult and demanding task,

AND BE IT FURTHER RESOLVED, That officers of the Commonwealth responsible for fostering higher education in Pennsylvania, and the public at large, be duly apprised of these commendable achievements, and of this action by the Board of Trustees.

Choir Members Sought

Interested persons wishing to sing in a choir at Chapel Services during June and July are invited to call Willa C. Taylor, Choir conductor. The Choir will sing at the 9 a.m. Sunday Service in the Helen Eakin Eisenhower Chapel and will hold rehearsals from 7 to 8:30 p.m. each Friday at the Chapel.

Board Honors Bagshaw

The late Kenzie S. Bagshaw has been honored in a resolution passed by the Board of Trustees last weekend. The resolution noted that Mr. Bagshaw "throughout his adult life served the University as a loyal friend and wise counsellor, frequently at great personal sacrifice."

Mr. Bagshaw served on the Board from 1938 until his death on April 14,

Leaves Of Absence Announced

Leaves of absence for the following faculty members were announced to the Board of Trustees last week:

Dr. Gerald K. Gillan, professor of civil engineering, July 1 to June 30, 1960, to work on special projects for a consulting engineering firm specializing in design and construction of large bridges.

Wilber F. Ward, associate professor of forestry, for the 1959-60 academic year to work for his doctor of forestry degree at Yale University.

Dr. John F. Hall, professor of psychology, Sept. 1 to Jan. 31, 1960, to write a psychology textbook on "Motivation" and to work on several research projects.

Dr. Raymond G. Ayoub, associate professor of mathematics, July 1 to June 30, 1960, to spend the first semester at Harvard University and the second at Oxford University, England. He has been selected as one of two recipients of U.S. Air Force Office of Scientific Research grant by the American Mathematical Society. He will work on a book on the analytic theory of numbers.

J. Herbert Moore, associate professor of civil engineering, to spend the 1959-60 academic year at Lehigh University studying under a Standard Oil Foundation Fellowship.

Dr. Will E. Mason, associate professor of economics, a year's leave to do research on the concept of cost-push inflation. He will visit leading economists in Boston, New York, Princeton, Philadelphia, and Washington during the fall semester and for the spring semester will confer with leading economists at universities in the mid-west and other sections. He is the holder of a Ford Foundation post-doctoral research fellowship.

Dr. Ollie D. Burke, professor of plant pathology extension, a six-months leave to visit commercial and university plant propagation houses throughout

the U.S. to study diseases of ornamental plants and flowers.

Dr. Ruth L. Pike, associate professor of foods and nutrition, from Sept. 1 to Jan. 31, 1960, to do research at Penn State and at the library of the New York Academy of Medicine and the Army Medical Libraries in Washington.

Russell J. Hutnik, assistant professor of forestry, the 1959-60 academic year to continue work on his doctor of philosophy degree in forestry, studying at the Duke University School of Forestry.

Dr. Lawrence E. Fouraker, professor of economics and assistant dean in charge of research for the College of Business Administration, Sept. 1 to Aug. 31, 1960, to study at Harvard University's Institute of Basic Mathematics for Application to Business under a Ford Foundation Fellowship.

Dr. Albert F. Buffington, professor of German, spring semester, 1960, to do further research in the Pennsylvania German dialect, folklore, and music.

Dr. John R. Menzies, professor of engineering sciences, this summer will do research in theoretical physics at the Sandia Corporation, Albuquerque, N.M.

Orvel A. Schmidt, associate professor of forestry, for two months this summer to work with the International Cooperation Administration in Panama to aid the sawmills and woodworking industries.

H. V. Walton, has been granted an extension of his leave until June 30, 1960 to continue work on his doctorate at Purdue University.

Richard A. Strand, instructor in electrical engineering, an extension of two months of his leave to continue his studies at Penn State under a Standard Oil Foundation Fellowship.

(Additional leaves will be announced in next week's Faculty Bulletin.)

G. M. Anthony Elected To Board Of Trustees; Three Alumni Renamed

George M. Anthony, Berks County poultry breeder, was elected to the Board of Trustees last week by delegates of agricultural and industrial societies, succeeding George W. Slocum, of Milton, who had served on the board since 1932.

Incumbents returned were: R. Johnston Gillan, H. Thomas Hallowell, Jr., and Walter W. Patchell.

Anthony is past president of the Pennsylvania Poultry Federation. He is a 1917 graduate of the two-year program in agriculture and has three sons who are Penn State graduates.

Alumni of the University named three incumbents to the Board: Milton Fritsche, Philadelphia, who has served since 1948; Ralph D. Hetzel, Jr., of New York, since 1956; and J. Lester Mauthe, of Youngstown, Ohio, since 1938.

Alumni Reunions Begin Today With Institute

The program for the annual Alumni Class Reunions and Alumni Institute today and tomorrow will include panel discussions, lecture sessions, class parties and banquets, a golf tournament, bus tours, all-class luncheon, alumni parade, presentations of various awards, dedication of new residence halls, and various other activities.

At 10:30 a.m. today, a panel discussion titled "American Culture from Auto to Atom" had Dr. E. F. Osborn, dean of the College of Mineral Industries, as moderator, with Drs. P. M. Alt-house, W. C. Fernelius, Margaret Matson, and J. J. Schanz, Jr., as participants.

Various lectures will be given today by D. H. Rank, Stanley Weintraub, A. F. Buffington, W. H. Wilson, E. L. Mattil, Eugene Goodwin, A. L. Williams, Lillian B. Larson, E. C. Wareham, Jr., C. F. Hager, and F. F. Lininger.

A panel moderated by Dr. J. H. Britton, associate professor of child development and family relationships, titled "Plan Now To Enjoy Tomorrow," will be held this afternoon also. Panelists will include Julia G. Brill and J. H. Frizzell.

Tomorrow in Schwab Auditorium, Distinguished Alumnus Awards will be presented to H. J. Anslinger, E. T. Asplundh, Fred P. Dodge, G. L. Haller, and Van H. Leichliter.

The Penn State Woman of the Year award will be given to Dr. Mary Frear Keeler.

President Walker will give his annual report on the State of the University at this same program.

Bids To Be Asked For Residence Hall Units

The Board of Trustees has authorized the asking of bids for the construction of residence halls for 1,046 students at the site of the turf grass plots at the northeast corner of the intersection of Entrance Rd. and Curtin Rd.

Three identical buildings, of eight floors, a unit of five floors, and a dining hall building of two floors were approved by the Board. The dining hall structure is planned to accommodate 1,596 students. Plans provide for future expansion of the area with construction of two additional eight-floor buildings to house 550 additional students.

It is hoped that work can be underway this summer.

Reception On June 28

A "get-acquainted" reception-dessert will be held June 28th in the ball room of the Hetzel Union Building from seven until nine o'clock. All members of the summer sessions faculty (both resident and visiting) and the administrative staff and wives are invited. Reservations should be turned in to the Summer Sessions Office at 101 Willard Hall by Monday, June 22nd.

Chapel Choir Holds Reunion This Weekend

The first reunion of the members of the Chapel Choir will be held today and tomorrow. More than 50 former choir members have made reservations for the two-day affair, which includes a banquet, two rehearsal periods, singing at the program of the presentation of Distinguished Alumnus Awards, and performances at two chapel services Sunday morning.

Invitations were mailed to over 700 former Choir members whose addresses could be found. The choir was formed in the mid-twenties.

Course Gets Credit

International Understanding 400, as offered in the Summer Session, 1959, will be acceptable for 3 credits towards a political science minor for the Master of Education degree.

SENATE —

(Continued from page two)

Cook, F. H., Fife, Iline, Morgan, Winona, Murray, R. K., Oakwood, T. S., Schanz, J. J., Jr., Thiel, G. N., Williamson, M. A., Dennis, L. E., ex officio.

EXTENSION POLICY — Hutchison, A. W., Chairman; Reede, A. H., Vice Chairman; Coombs, F. M., Fuqua, Mary, Hager, C. F., Hutton, H. K., John, M. E., Jones, D. C., Knerr, H. W., McCord, R. E., Keller, E. L., ex officio.

FACULTY AFFAIRS — Gemmell, James, Chairman; McClay, D. R., Vice Chairman; Adams, Martha, Colwell, R. M., East, Marjorie, Ferguson, J. H., Hartman, H. L., Long, C. M., Sommer, L. H., Theuring, G. L.

MILITARY INSTRUCTION — Rayback, J. G., Chairman; Smith, C. J., Vice Chairman; Baer, E. E., Bratzler, J. W., Dixon, J. A., Lattman, L. H., Montgomery, James, Pashek, R. D., Patrick, R. B., Richie, E. B., ex officio; Rigley, O. R., Jr., ex officio; Roach, J. P., ex officio; Glenn, H. R., ex officio.

RESEARCH POLICY — Marin, Joseph, Chairman; Matson, F. R., Vice Chairman; Bortree, A. L., Chambury, H. B., Curry, H. B., Gross, E. A., Pike, Ruth, Rank, D. H., Ray, W. S., Strong, E. P., Farrell, M. A., ex officio.

RULES — Anderson, J. M., Chairman; VanOrmer, E. B., Vice Chairman; Stevens, G. Z., Waters, R. H., Bernreuter, R. G., ex officio.

SCHOLARSHIPS AND AWARDS — Bradley, J. R., Chairman; Bissey, L. T., Vice Chairman; Beittel, K. R., Durant, Della, Fox, J. A., Gobble, J. L., Jordan, Joseph, Larson, Lillian, Mook, M. A.

STUDENT AFFAIRS — Newman, Monroe, Chairman; Kinsloe, Helen, Vice Chairman; Howell, B. F., Godfrey, Ruth, Bernreuter, R. G., ex officio; Britton, Virginia, ex officio; Simes, F. J., ex officio; Lipp, Dorothy J., ex officio; Julius, Leonard, President, Student Government Association, ex officio; Byers, Larry, Vice President, Student Government Assoc., ex officio; Janjigian, Jessie, President, Women's Student Government Assoc., ex officio.

Unfinished Business

Mr. Shelly moved adoption of the motion as presented by the Senate Committee on Courses of Study at the last meeting of the Senate. This motion is as follows:

That a standing or special committee of the Senate be requested to devise specific procedures for implementation of the Senate policy embodied in the Callenbach (Educational Policy subcommittee on General Education, E. W. Callenbach, Chm., October, 1954) report.

The motion was seconded. Mr. Larson stated that the Senate Committee on Educational Policy had been given responsibility of cer-

tain objectives listed in the Callenbach report and has been working on this for sometime. Several subcommittees have been appointed, some have discharged their obligations, others are still working and will report early in the Fall of 1959. Mr. Larson believed that a number of the objectives have been studied and others are being studied and he did not see the need for a separate committee to study the implementation of the Senate policy embodied in the Callenbach report. The vote on the motion was lost.

E. P. Nye, Chairman of the SENATE COMMITTEE ON STUDENT AFFAIRS, moved that subsection of Section 1, Article 2, of the By-Laws (edition 1958-59) be deleted. The motion was seconded and passed.

New Business

J. S. Bowman called the attention of the Senate to an action taken by the Senate at the April, 1958 meeting which approved the following policy:

Only those applicants shall be admitted to the University as freshmen who are deemed competent to enter English Composition I, or have unusually high scholastic ability in other respects.

The fall semester, 1960 was set as the effective date for the implementation of this policy. Mr. Bowman stated that the secondary schools would not have enough time to prepare their students for this change by the fall of 1960. He moved that the effective date of this section be changed from the fall of 1960 to the fall of 1962. The motion was seconded. D. H. McKinley moved that this matter be referred to the Senate Committee on Admissions. The motion was seconded. After some discussion the motion to refer the matter to the Committee on Admissions was lost. The motion to change the effective date to the fall of 1962 was passed.

Mr. McKinley announced Commencement for the Spring Semester, 1959 will be held on Saturday, June 6, 1959.

Comments and Recommendations for the Good of the University

President Walker spoke relative to the duties of the Senate and stated that he was considering appointing a "blue ribbon" committee to study and clarify the duties of the Senate, perhaps this summer.

Mr. Walker expressed thanks for work well done to Miss Pearl O. Weston, Dean of Women, and E. B. Stavely, Associate Dean of the College of Engineering and Architecture, who are retiring at the end of this academic year.

The next regular meeting of the Senate will be on Thursday, October 1, 1959, in Room 121 Sparks Building. The agenda will be distributed on September 17, 1959.

The meeting adjourned at 5:07 p.m.

Robert G. Bernreuter
Secretary

Calendar

Friday, June 12

Alumni Institute program, including panel discussion at 10:30 a.m. on "American Culture from Auto to Atom," HUB assembly hall. At 2 p.m., lectures by faculty members.

Saturday, June 13

Alumni Reunion program, with all-class luncheon at 12:30, Recreation Building, and special program of awards at 2:30 p.m. in Schwab Auditorium.

Sunday, June 14

Chapel Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Rev. Preston N. Williams, assistant University chaplain.

Chapel Service, 10:55 a.m., Helen Eakin Eisenhower Chapel. Dr. Luther H. Harshbarger, University chaplain. Anthems by Chapel Choir Alumni, Willa Taylor, conducting.

Wednesday, June 17

Summer Artists Series program by piano duo of Luboshutz and Nemenoff, 8:30 p.m., Schwab Auditorium. Tickets available to non-students June 15 and 16 at HUB desk.

Monday, June 22

Mateer Playhouse program begins at Standing Stone, with "Desire Under the Elms," by Eugene O'Neill. Runs to June 27.

Saturday, June 27

Meeting of the Seismological Society of America, 9 a.m. to 5 p.m. (Also Monday, June 29).

Resignations Announced

The resignations of the following members of the faculty have been announced:

Anthony Luchek, professor of industrial relations, has resigned to accept a position as professor of labor education at the Milwaukee Center of the University of Wisconsin to be in charge of labor education services in the Milwaukee area. He had served as specialist in the field of labor at Penn State and had served for 12 years.

Dr. E. Elizabeth Hester, associate professor of foods and nutrition, has accepted a similar position at Cornell University. She had previously taught at Cornell for seven years before she came to Penn State, where she has served seven years.

Dr. William W. Mills, research associate in the mineral conservation section, College of the Mineral Industries, has accepted a position as professor of chemistry, Lambuth College, Jackson, Tenn. He has been at Penn State since 1958.

Peter Wegner, research associate in the computer laboratory, has accepted a position as research associate at Massachusetts Institute of Technology. He received his master of arts degree in economics from Penn State on Saturday and had been here two years.

Dr. Mitsuoki Nakahira, research associate in ceramic technology, who has been here three years, has accepted a senior position in the department of mineralogy at the University of Tokyo.

1959 Class Gives Books

The Class of 1959 presented the University with a collection of books by contemporary American writers for the Fred Lewis Pattee Library last weekend. The Class gift of nearly \$2,500 was voted by members of the Class. Actual collections among seniors amounted to about \$600 and the money was increased threefold by President Walker.

F. T. Hall To Head Up New Engineering Department

Francis T. Hall, Jr., professor of electrical engineering, has been named head of the new department of general engineering and assistant dean for general engineering in the College of Engineering and Architecture, effective July 1.

Hall will be responsible for the engineering faculty members at the Commonwealth Campuses, for the curriculums of engineering students on these campuses who are candidates for the baccalaureate and associate degrees; and for the work in engineering drawing and descriptive geometry. Faculty teaching these courses will be assigned to the new department.

In his new position, Hall will also have responsibility for the bachelor of science degree candidates without designation in a specific field of engineering and for the programs of honors students who might wish to pursue non-specific engineering programs.

His responsibilities will also include the programs of the freshman engineering students enrolled in a common freshman year and the freshman engineering orientation course.

Items of Interest

• Lectures and Talks

M. R. Cannon, chemical engineering, on "Viscometry" at the 5th World Petroleum Congress in New York, June 5.

Miriam E. Lowenberg, foods and nutrition, on "The Child and Child Feeding" at the annual meeting, American Home Economics Association in Milwaukee, June 24.

S. E. Thompson, hotel and institution administration, on "The Successful Club Manager," at the meeting of the Pennsylvania Club Managers Association, in York June 8.

• Articles and Papers

H. M. Davis, chemical metallurgy, a paper on the rates of reaction of steam with iron and steel, to a symposium at the national convention of the American Ceramic Society, Chicago.

H. P. Zelko, speech, a series of articles on speech, communication, and instruction in the "County Agent and Voc-Ag Teacher", a monthly publication for agricultural leaders and teachers.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Seven on Faculty in New Posts; Johnson, Fletcher Appointed

THE following appointments have been announced by the Board of Trustees:

Dr. Harold J. O'Brien, associate professor of speech, has been named assistant to the dean of the College of the Liberal Arts. He will continue in his faculty position on a part-time basis. In his new post he will be responsible for the Commonwealth Campus activities of the College. A graduate of Bloomsburg State Teachers College, he received both master's and doctor's degrees from Penn State, has served on the faculty since 1947.

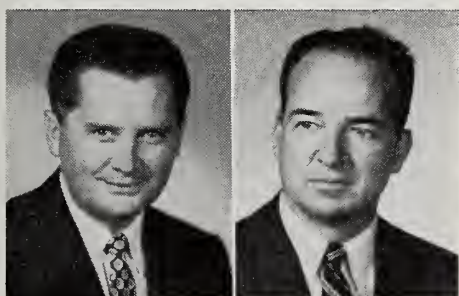
1. A graduate of Yale University with a degree in industrial engineering and administration, he received the master's degree from Massachusetts Institute of Technology and the master of science degree in applied physics from the University of Rochester. He has been personnel assistant at Yale, industrial engineer with R.C.A., a production planning officer with the Naval Bureau of Ordnance, technical director for the Naval Bureau of Ordnance Division of Eastman Kodak and finally staff engineer for the Air Force program at Eastman Kodak.

School on a part-time basis. He is a graduate of Ohio State University and received master's and doctor's degrees there. He joined the faculty in 1949 after serving at Ohio State and in the historical division of the American Red Cross.

Dr. Joseph G. Rayback, professor of American history, who has been acting head of the department of labor education since it was established a year ago, has been named head of the department.

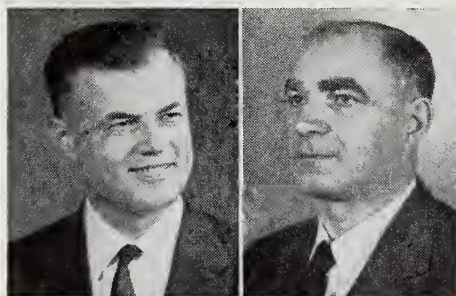
The department, in the College of the Liberal Arts, administers the labor-management relations curriculum, conducts studies in the field of labor, and is responsible for instruction on and off campus.

Dr. Rayback joined the staff in 1946 after serving in the Navy and teaching at Stoneleigh College. He has completed



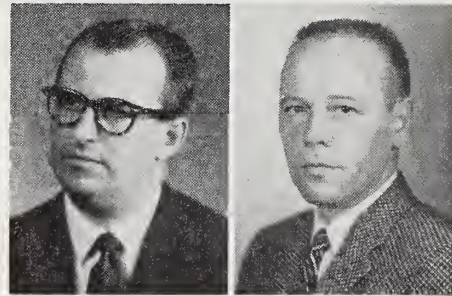
O'Brien

Smith



Jacobson

Fenske



Murray

Rayback

Dr. William M. Smith, Jr., professor of family relationships, has been named State 4-H leader, succeeding Chauncey P. Lang, who retires June 30. A member of the faculty since 1947, Dr. Smith is a graduate of Ohio State University, with advanced degrees from Cornell. Three years ago he received the National 4-H Alumni Award for Pennsylvania and has been active in 4-H Club work at various times.

Albert H. Jacobson, Jr., manager of field operations for a special Air Force program of Eastman Kodak Co., Rochester, N.Y., has been named associate dean of the College of Engineering and Architecture to fill the position held by Earl B. Stavely, who will retire on July

Dr. Merrell R. Fenske, research professor of chemistry and chemical engineering, has been named head of the department of chemical engineering. He has been a member of the Faculty since 1929 and has directed the work in the Petroleum Refining Laboratory since he came. A graduate of DePauw University, he received his doctor of science degree in chemical engineering at the Massachusetts Institute of Technology. In 1946, his alma mater honored him with the honorary degree of doctor of science.

Dr. Robert K. Murray, associate professor of history, has been named head of the department of history for a three-year period and will serve also as assistant to the dean of the Graduate

ed a three-year term as head of the department of history.

Dr. John C. Johnson, research physicist at the University of Michigan Willow Run Laboratories, has been named director of the Ordnance Research Laboratory, effective July 1.

Affiliated with the University of Michigan since 1943, Dr. Johnson heads the acoustics and seismics laboratory at Willow Run. He is a graduate of Culver-Stockton College, with master of arts and doctor of philosophy degrees in physics from the University of Michigan.

Robert E. McCord, associate professor of engineering extension, has been named director of Continuing Education.

Continued on page two

Announce Appointments

The following faculty appointments have been announced recently.

Dr. David E. Davis, as professor of zoology, July 1, comes from The Johns Hopkins University, where he is associate professor and assistant dean of the School of Hygiene and Public Health. A graduate of Swarthmore College, he holds master of arts and doctor of philosophy degrees from Harvard University.

Dr. Paul L. Michael, as associate professor of engineering research. A graduate of Fairmount State College, Fairmount, W. Va., he obtained his master of science in physics and mathematics at West Virginia and doctoral degree in occupational health at the University of Pittsburgh. He taught at West Virginia from 1948 to 1951, served for a year in the electrical division of the Naval Bureau of Standards, and has been with the Mine Safety Appliance Co.

Nunzio J. Palladino, as professor of nuclear engineering and head of the department of nuclear engineering, effective July 15. Since 1950, he has been with the Bettis Plant of Westinghouse Electric Corp. as manager of the pressurized water reactor engineering division and has been engaged in the development and design of reactors for the submarine prototype Mark I and the Nautilus, as well as for the Atomic Power Station at Shippingport. He is a graduate of Lehigh University, holds a master of science degree from Lehigh, and has completed advanced work at the University of Tennessee, University of Pittsburgh, and the Oak Ridge National Laboratory.

Kermit Q. Stephenson, as associate professor of agricultural engineering. A member of the University of Arkansas staff since 1955, he served previously at the National Institute of Agriculture in Panama. He received his bachelor's and master's degree from the University of Arkansas and is a registered professional engineer in Arkansas.

Walter C. Reis, who during the past year has served on a temporary appointment as associate professor of architecture, will become associate professor effective Sept. 1. He completed his undergraduate training at the German Technical State Universities at Brno and Prague and graduate studies at the Academy of Fine Arts, Vienna.

Dr. Maurice B. Cramer, of the University of Chicago, has been named professor of English, effective July 1. A native of Camden, N.J., he completed his undergraduate and graduate work at Princeton University. His teaching career includes posts at Mt. Holyoke College, University of Tampa, Princeton, and Chicago.

Dr. Robert L. Clewett, lecturer in marketing management at the Wharton School of the University of Pennsylvania, has been named associate professor of marketing. He obtained his bachelor's and master's degrees from the Uni-

Items of Interest

• Articles and Papers

R. T. Oliver, speech, a paper in "Discourse: A Review of the Liberal Arts," published by Concordia College, titled, "Northeast Asia: Vital Flank in the Cold War."

Philip Young, American literature, a critical review of Ernest Hemingway published by the University of Minnesota Press.

P. L. Walker, fuel technology, a paper, "Factors Affecting Mechanism of Graphitization, the Heterogeneous Gas Reactions of Graphite and the Release of Chemisorbed Gases on Graphite by Thermal and Chemical Treatment," at the Atomic Energy Commission Solid State Metallurgy Conference June 18 and 19.

J. A. Sauer, physics, a paper titled "Transitions in Polymers" before the AEC Solid State Metallurgy Conference June 18 and 19.

• Lectures and Talks

L. T. Lee, political science, three lectures on "China" and "Problems of World Peace" at the student assembly, Westminster College, May 7 and 8.

• Elected or Appointed

F. J. Doan, dairy manufacturing, elected to a three-year term on the Board of Directors, American Dairy Science Association.

L. T. Lee, political science, elected one of 15 English speaking participants, 1959 session, Centre for Studies and Research in International Law and International Relations, Hague Academy of International Law.

versity of California and doctor's degree from the University of Michigan. He has also served on faculties at the University of Michigan and Montana State University.

Dr. Fred W. Kniffin, who has been on the faculty of Indiana University for the past six years, has also been named associate professor of marketing. He is a graduate of the University of Louisville and received the master of business administration degree from the University of Pennsylvania and the doctor of business administration from Indiana University. He has taught at the University of Louisville and Penn.

Ernest R. Weidhass, associate professor of engineering graphics at the University of Maine, has been named associate professor of engineering drawing. He received the bachelor of mechanical engineering in mechanical design from New York University and master's degree in mechanical engineering from the same school. He taught at N.Y.U. before going to Maine in 1953.

SEVEN —

Continued from page one

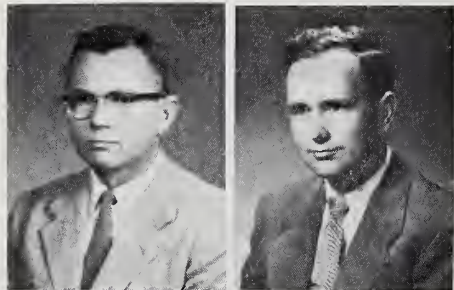
tion in Engineering and associate professor of engineering. He will be responsible for engineering courses and programs in the Continuing Education Services, and for the coordination of resident instruction in engineering at the Commonwealth Campuses. A Penn State graduate, he obtained the master of science degree in engineering administration at Massachusetts Institute of Technology and has completed additional graduate work at Purdue and the University of California.

Dr. Peter W. Fletcher, a 1933 graduate of the University with a bachelor of science degree in forestry, has been named director of the School of Forestry. He succeeds Maurice K. Goddard, now State Secretary of Forests and Waters.

The son of Dr. S. W. Fletcher, dean emeritus of the College of Agriculture, the new head of the School of Forestry took his master's degree work at Yale University and his doctorate at the University of Missouri. His experience includes forestry work in Missouri, Kentucky, Tennessee, Michigan, North Carolina, and South Carolina. His research has been concerned primarily with forest soils, forest hydrology and watershed management, and silvics.

Dr. Philip L. Walker, professor and head of the department of fuel technology, has been appointed chairman of the Division of Mineral Technology and Dr. Howard P. Palmer, associate professor of fuel technology, will head the department of fuel technology, effective July 1.

Dr. Walker succeeds Dr. Waldemar Weyl, who has resigned as head of the fuel technology department to serve as research professor in the College of Mineral Industries.



Palmer

Walker

Seniors Join AA

A total of 503 members of the graduating class of 1959 have enrolled in the Alumni Association, with five seniors becoming life members, 53 others making partial payments on life memberships, and the other 445 joining for one year.

Physical Education Studies

Shed New Light on Fitness

INCREASING attention to experimental research in physical education is developing some new ideas about physical fitness, says Dr. Donald B. Swegan, assistant professor of physical education.

"In a relatively few years," Swegan comments, "there have been increasing opportunities for studies and also more research money available. We're devising equipment to develop such studies, which we feel are more necessary now than ever before since the country is becoming more conscious of physical fitness and of athletics of all types."

Swegan is one of several staff members of the College of Physical Education and Athletics conducting experimental studies, and most of the graduate students are similarly engaged in experimental research. Other universities are also expanding their research in exercise physiology.

"We are facing the fact," Swegan says; "that there are many old wives' tales relative to physical fitness still glibly told. Much of this type of information can be checked by controlled experimentation."

For many years, Swegan says, it was assumed that men with a low pulse rate tended to be better athletes and examples were cited of famous track stars or boxers who had pulse rates in the thirties or forties. Today, it is known, neither pulse rate nor blood pressure is a reliable indicator of strength, endurance, or the many other factors which go to make up physical performance.

"We have been making studies," Swegan points out, "relative to lactic acid in the blood and its relations to endurance. It has been commonly supposed that the build up of lactate was an indicator of approaching exhaustion. Now we find that some subjects build up considerable lactic acid with very little exercise, others with only much exercise."

"We often conjectured whether various blood determinations would tell the physical condition of a person, but our present evidence is that no single blood measure correlates well with physical condition."

One of the recent studies conducted by a graduate student under the guidance of Drs. John D. Lawther, Fred M. Coombs, Elmer A. Gross, and Swegan concerned 22 members of the faculty. Purpose of the study was to determine the effects of a somewhat vigorous recreational program on the physiological condition of an essentially sedentary group.

"Most of the men," Swegan says, "had been relatively inactive for several years. They varied in ages from 33 to 64, with an average of 47 years. They were all examined by a physician before participating in the study, and records were made of their medical history, systolic and diastolic blood pressure, pulse rate while resting and immediately after exercise, absence of



Dr. Donald B. Swegan, assistant professor of physical education, adjusts the "tensiometer" for endurance test by William Spieth, graduate assistant. Experiments in the field are adjusting ideas concerning physical fitness.

heart and lung defects, and absence of hernia.

"Without going into detail on the complete experiment, let me say that each man was given two simple endurance tests before he underwent a conditioning program, which consisted of an eight-week, twice-weekly series of recreational activities, including badminton, volleyball, swimming, bowling, paddleball, and handball.

"The net result of this activity was that group improvements were statistically significant on the arm endurance test, the bicycle test, and pulse rate immediately after exercise. In weight reduction and pulse rate two minutes after exercise, the reductions in favor of better condition were not significant.

"Perhaps just as important as the measurable gains in physical condition were the reactions of the men themselves; most reported feeling much better, some reported sleeping better, some less fatigue, some better dispositions at home, and some greater efficiency at work.

"It may have shown that many faculty members are not as far out of shape as they think and that they can get into reasonably good condition if they're willing to exercise."

The bicycle ergometer, for controlling work output, has been refined somewhat here. Endurance tests on the ergometer rely on pedalling a stationary bike with controllable resistance against the wheel to maintain precisely the desired work output. Measuring this resistance has always been something of a problem but adaptation of a "cable tensiometer" device developed during the war has solved the problem.

Another device developed here, by Donald J. Watkins, assistant professor of physical education, makes use of a photo-electric cell to measure movement time of individuals. This device could provide useful information not only in athletics but in certain industrial occupations.

One interesting study, results of which have not been completely analyzed as yet, involved University students and subjects at the Rockview Branch of the Western State Penitentiary. In a study of endurance development, both the college students and the inmates were divided into equated groups which completed exercises on the bicycle ergometer once, twice, or three times per week, for five months. This study, incidentally, was partially supported by the National Collegiate Athletic Association.

Studies not only here but elsewhere seem to confirm that many men tend to baby themselves as far as endurance in physical activities is concerned. Many never do work to the point of "second wind", which is a popular, if not exactly scientific, way to describe the ability to continue at the same pace a physical activity after having apparently reached exhaustion.

"There are sufficient studies, too, to indicate that physical activity does help if you're mentally exhausted," Swegan says, "but mental activity does not necessarily reduce physical fatigue."

One study conducted by Swegan with Hugh L. Thompson, instructor in physical education, was related to "warm up" of athletes and non-athletes in swimming and basketball before taking part in the actual event. Endurance, speed, and skill have been studied. In general the conclusions reached were that in swimming endurance is increased if the person takes a formal warm-up consisting of actual swimming practice. There was also a significant improvement in speed swimming when a formal warm-up was compared to no warm-up, and in basketball foul shooting improvement was likewise indicated with a formal warm-up.

"Much of the research in the past in our field," says Swegan, "has been concerned with strength, and relatively little with skill, endurance, speed of movement, or reaction time.

"We are learning much which will be helpful not only to athletes but to the non-athlete. Our areas of research often overlap other disciplines, such as physiology and psychology, but we feel that research in physical education can make a significant contribution to man's knowledge of his bodily processes."

More Leaves Announced

The following faculty members have been granted leaves of absence in addition to those listed previously:

Aaron Druckman, associate professor of philosophy, for the Fall Semester, to spend two or three months in France doing research and attending meetings in other European countries.

John O. Pepper, professor of entomology extension, from Aug. 1 to Jan. 31, to visit 24 state colleges and universities in the midwest and northwestern parts of the U.S. and do research work at the Archbold Biological Station, Lake Placid, Fla., a sub-division of the American Museum of Natural History. He plans to work on a taxonomic paper on aphids of Pennsylvania.

Dr. Ralph P. Seward, professor of chemistry, the 1960 Spring Semester, doing research in physical chemistry in the field of non-aqueous solutions at the University of Bristol, England.

Earl A. Myers, assistant professor of agricultural engineering, for the next academic year, to study for his doctor of philosophy degree at Michigan State University.

Dr. E. Willard Miller, head of the department of geography, April 1 to Aug. 31, 1960 to study the European Common Market industrial trends and to attend the International Geophysical Congress in Stockholm.

Dr. Eugene T. McDonald, director of the Speech and Hearing Clinic, for the 1960 Spring Semester, to do research and write professional articles, and to visit clinics throughout the United States.

Dr. R. Wallace Brewster, professor of political science, Feb. 1 to June 30, 1960, to spend six months in France to

study the organization of the new administrative tribunals in France and the development of administrative law of the Court of Justice of the European Community.

Wolfgang E. Meyer, professor of mechanical engineering, June and July, 1959, to visit industrial and university laboratories where work on environmental research on engines is being carried out, as a special consultant to the Office of Ordnance Research, U.S. Army.

Dr. Jessie R. Bernard, professor of sociology, a year's leave to make a trip around the world, followed by duties as visiting professor of sociology at Princeton University.

Frederick Rimrott, assistant professor of engineering mechanics, an extension of leave for another year to continue study at the Ecole Polytechnique, Montreal, Can.

Daniel F. Hobbs, Jr., an extension of his Graduate School Fellowship and leave of absence for an additional academic year to complete work for his doctor of philosophy degree in family relationships.

Dr. Norman Davids, professor of engineering mechanics, for the next academic year, to conduct research in the fields of stress-wave propagation in materials and penetration mechanics at Israel Institute of Technology, Haifa, Israel, under a Fulbright grant.

Dr. John A. Sauer, head of the physics department, Oct. 1 to July 31, to conduct research in high polymers at Oxford University, England.

Dr. John G. Aston, professor of organic chemistry and director of the Low Temperature Laboratory, for the 1959-60 academic year to study in Europe. Under a Guggenheim Fellowship, he will conduct research in rotation and migration in solid state.

Dr. Warren W. Miller, professor of chemistry, has been granted a leave of absence for the 1959-60 academic year to accept a position as assistant to the director of the Puerto Rican Nuclear Center, established by the U.S. Atomic Energy Commission at the University of Puerto Rico.

Registration Tops 3,000 In First Summer Sessions

A total of 3,014 students registered for Intercession and for the first Six-Weeks period of Summer Session, latest figures show. The totals include 63 who registered late for Intercession and 39 late registrants for the Six-Weeks Session.

Undergraduate enrollment in Intercession totalled 392 and for the first Six-Weeks Session 913. Graduate students, Specials and employees of the University make up the balance.

Approximately 53 per cent of the students are registered in Intercession, the three-week period which concludes Friday, June 26, at 6:20 p.m. Registration for Mid-Session will be held Monday, June 29 and classes will begin the following day.

Calendar

Sunday, June 21

Chapel Service, Helen Eakin Eisenhower Chapel, 9 a.m. Dr. Luther H. Harshbarger, University chaplain.

Monday, June 22

Opening night of "Desire Under the Elms" at Mateer Playhouse, Standing Stone, 8:40 p.m. (Each night for the week ending June 27.

Thursday, June 25

Outdoor movie, 9 p.m., in rear of HUB. "Gun for a Coward".

Friday, June 26

Intercession ends, 6:20 p.m.

Saturday, June 27

Meeting of the Seismological Society of America, 9 a.m. to 5 p.m., Mineral Industries Auditorium. (Also Monday, June 29.)

Sunday, June 28

Chapel Service, Helen Eakin Eisenhower Chapel, 9 a.m. Charles Minneman, assistant University chaplain.

Monday, June 29

Registration for Midsession classes. Mateer Playhouse production of "Three Men on a Horse," 8:40 p.m. Runs through Saturday, July 4.

Tuesday, June 30

Midsession classes begin at 8 a.m.

Wednesday, July 1

Faculty-student mixer, 9-12 p.m., Hetzel Union Building ballroom.

Mateer Playhouse Opens With Eugene O'Neill Play

Eugene O'Neill's "Desire Under the Elms" will open at Mateer Playhouse on Monday, June 22 as the first production of the 1959 season. The play has recently had a successful revival on Broadway and in films and will run until June 27.

Mateer Playhouse is at Standing Stone, at Neff's Mills, about 18 miles from the campus. Single tickets are available at the Playhouse, at the State College Hotel, the Altoona Book and Record Shop, and in Lewistown at Danks and Co.

Sale of season tickets, priced at \$17 and \$13 will continue through next week. The season runs for ten weeks, with eight different plays in that period.

Fernelius Honored By Franklin And Marshall

Dr. W. Conrad Fernelius, professor of chemistry and head of the departments of chemistry and chemical engineering, was conferred the honorary doctor of science degree by Franklin and Marshall College on June 8.

The citation presented to him noted that "he is representative of the contemporary scientist who demonstrates his professional competence as teacher at leading universities and as consultant to and director of government agencies."

Students Seek Employment

The Student Employment Service, 112 Old Main, has listings of men and women students looking for part-time or full-time summer work. Faculty and staff members may arrange to employ a student on a single or regular basis, for such jobs as laboratory or office work, drafting, lawn care, housework, and baby sitting, by calling University extension 2049.

Staff Changes Made

Dr. Martin L. Zeigler, assistant director in the Division of Counseling, has been appointed director of student affairs research in one of a number of changes in the staff announced recently. He will integrate research activities in the area of student affairs in his new position. He has obtained his three academic degrees from the University.

Dr. Donald H. Ford, who has been acting director of the Division of Counseling, has been made director.

Walter A. Kearney, who has been superintendent of the New Castle, Pa., schools since 1954 and was previously on the University staff, has been named director of the McKeesport Campus. He is a 1934 graduate of the University.

Millard T. Bunnell, who has been in charge of registration and records in General Extension, has been named assistant registrar. He will integrate the records and registration program in General Extension services with the work of the registrar.

Warren R. Haffner, assistant to the registrar, has also been named assistant registrar and will continue to be responsible for data processing work in the Office of the Dean of Admissions and Registrar.

Faculty Bulletin



46/37
THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Rehabilitation Is Key To Policy On Discipline

WHAT happens to students who don't conform to accepted standards of conduct at Penn State? Should the University adopt a "get-tough" policy on student discipline?

If the answers to these questions were as straight-forward as they seem, there would be fewer problems for Dean of Men Frank J. Simes and the Subcommittee on Discipline of the Senate Committee on Student Affairs.

"But there are gray shades, as well as black and white in these questions," Simes says, "and to give categorical answers to them is to imply that each case of misconduct falls into a neat little package and can be equated to a standard penalty."

Basically, Simes adds, the University's policy on student discipline is one of rehabilitation within the scope and power of the University to administer it.

"I think nearly everyone closely connected with the problem of student discipline," he comments, "is in agreement that if the student had the stuff to get into Penn State he probably has enough good in him to warrant a real trial."

"When someone asks me why don't you just automatically throw the student out of the University after some offense — as some do, I assure you — I ask them if they would want the same penalty applied to their own son or daughter if he or she were to make the same or a similar mistake. When the problem comes close to home, we're all inclined to react differently."

Student discipline is a problem for everyone, Simes believes. The Senate recognized an obligation in the matter long ago in setting up the machinery for handling student disciplinary problems. The Subcommittee on Discipline of the Senate Committee on Student Affairs handles problems of social disci-

pline, while the various committees on Academic Discipline of the several colleges deal with problems of academic dishonesty. Generally there is considerable uniformity in the handling of these cases, although the philosophy of each college regarding the severity of penalties to be applied varies somewhat. Penalties imposed for dishonesty vary widely from a reduction in grade to dismissal from the University.

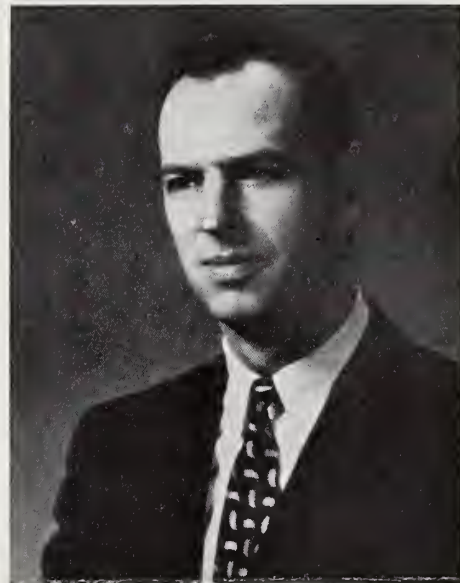
The established procedure by which cases of academic dishonesty are handled is as follows:

"The instructor," says Simes, "who has information about such cases refers the matter to the student's dean who in turn refers it to the Committee on Academic Discipline of his College. If the student wishes to appeal any action taken by the committee of his College, he may go to the Senate Subcommittee on Discipline within 48 hours."

Academic dishonesty is only one of the problems confronting administrators and faculty members. Problems of social discipline are admittedly fairly frequent, but, Simes points out, the number of problems is not out of proportion to the size of our student body.

"Our students are no different than those of other colleges," Simes maintains, "in that they are going to make mistakes. Many of their acts are spontaneous, and the student fails to weigh the risks and penalties. I believe very little of their misconduct is pre-planned."

The resulting penalties for misconduct vary greatly, depending on many factors, from "official warning" to "dismissal." There is, in fact, an action titled "education interview" applied to inappropriate actions of a very minor nature. The interview may be conducted by the residence hall counsellor, or hostess, or any member of the staff of the Dean of Men or Dean of Women,



Dean Frank J. Simes

What About Your Child?

but a notation is made that the interview was held and is a matter of record.

"Many situations arise that require some type of action," Simes points out. "However, in proportion to the total number of problems, those of very minor nature, calling for educational interview or similar minor penalty, constitute a large percentage of the total; for example, disturbance in the residence halls."

Social offenses of more serious nature may involve the office of the Dean of Men or Dean of Women, a student tribunal, the Senate Subcommittee on Discipline, the dean of the College in which the student is enrolled, and probably also the department head.

Some of the minor social offenses are handled by Simes himself, or one of his staff members, in the case of men students. Others of somewhat more serious nature are referred after investigation to either the Student Tribunal or the AIM Judicial Board of Review, depending on whether the student is a fraternity man or independent. In either

Continued on page two

REHABILITATION —

Continued from page one

case the organization makes recommendations to the Dean of Men not only on guilt or innocence but also on the penalty, if one is to be imposed.

The Senate Subcommittee on Discipline may also hear the case, with witnesses if necessary, relying in considerable degree on information supplied to it by many sources. The student and his witnesses may be heard also. The decision of the Subcommittee is subject to review by the President.

All these groups, says Simes, have the philosophy of rehabilitation. Even when the penalty is one of suspension or dismissal, the most serious given, there is machinery available for reinstatement later, although in the case of dismissal no promise is given at the time of the dismissal action that the student will be given another chance at Penn State.

The Office of the Dean of Men, in supplying information for the Subcommittee, often takes elaborate means to develop the data, including obtaining statements from complaining persons, students involved, residence hall counselors, fraternity advisors or officers, academic advisors, individual instructors, the Division of Counseling, the Health Service, local police or legal authorities, wherever appropriate.

Minor matters involving warning or discussion only are resolved by staff conference and counseling in the Dean of Men's office. Some offenses are referred to the Disciplinary Committee directly and others to the Health Service or Psychological Clinic for recommendation. More serious matters are referred to student judicial groups also, for two reasons: to involve student boards in disciplinary matters, and to provide offending students with the opinions of their fellow students.

The various penalties for social offenses by men students (given in detail in the Senate Minutes of the Faculty Bulletin of May 29, 1959) include three forms of suspension (not dismissal) including "suspended suspension," a term which seems to cause some confusion. Simes explains that this penalty indicates that the Subcommittee agrees that suspension may be warranted but it is the general feeling of the members of the committee that it may be possible to rehabilitate the student without invoking the suspension action. If the student is involved in any further offense, the suspension action is summarily taken.

"The fact that such a penalty is in the books," says Simes, "further illustrates the point that there are many shades of gray in treating disciplinary problems."

How Many Problems?

A report covering the period February, 1957, through March, 1958, (a period of 14 months) showed a total of 142 disciplinary cases for men students, not including cases involving only "educational interview." During this period, 12 of the 142 cases involved sus-

pension—three for academic dishonesty, two for improper use of alcoholic beverages, six for theft and burglary, and one for unlawful and improper use of automobiles.

The study also showed that of the 142 cases, 58 per cent were by students in their freshman year. Probation of one form or another constituted 71 per cent of the penalties imposed.

Part of the penalty for offenses, and one which weighs heavily, is the fact that in most cases a notation is made on the student's transcript of the disciplinary action. Again, however, there is a procedure for removal of the "black mark" by petition, and students do avail themselves of the opportunity to remove the blot.

"If an inquiry is directed to the University asking about a student's record," Simes points out, "we must, of course, provide appropriate information."

Student judicial organizations, surprisingly enough, are consistently tougher in dealing out penalties than administrative or faculty groups, Simes points out. Although the role of these groups is advisory, they have taken seriously the responsibility of representing the student body on disciplinary matters.

"It is our belief," Simes concludes, "that the rehabilitation policy is working successfully. Extremely few students ever have more than one disciplinary action against them, and the number of students against whom suspension action was once taken and who ultimately return and graduate is very large."

Telephone Data Deadline Today

Today is the deadline for submitting information for the telephone directory which will serve both students and staff when the new direct dialing telephone system goes into effect on Aug. 16.

Faculty and staff members who have recently had changes in office or home addresses and telephone numbers, titles, or marital status are reminded to indicate these changes on the official telephone directory card which is available at the departmental office or through Wilbur F. Diehl, manager of telephones, Ext. 405, Room 318 Old Main.

The directory will be ready for distribution on Aug. 10, Diehl says, to give telephone users the opportunity to become accustomed to the new system before it goes into effect.

Stamped and plain post cards to be used to inform persons off campus about the new system, and especially about the direct dialing feature, will be available on Aug. 3. Transferring of calls from one campus telephone to another will not be possible under the new system, Diehl explains, so that callers will be saved considerable trouble if they are correctly informed of the telephone number.

Items of Interest

• Honors

F. G. Brickwedde, chemistry and physics, chosen as one of six U.S. delegates to the 10th International Congress of the International Institute of Refrigeration, Aug. 19-26, in Copenhagen, Denmark.

J. H. Moore, civil engineering, elected to full membership, American Society of Civil Engineers.

• The Arts

S. H. Frost, art, exhibited a drawing, "The Bed," in the 8th Boston Arts Festival during June.

Represented in second Pennsylvania Arts Annual exhibition sponsored by the Arts League of Ligonier Valley: Andrew Case, Yar Chomicky, George S. Zoretich, Eleanor Zygler, and Stuart Frost of the art and art education staffs; also Hobson Pittman and Warren Rohrer of the Summer Sessions faculty.

• Elected or Appointed

Merrill Wood, zoology, treasurer of the Wilson Ornithological Society.

• Articles and Papers

J. J. Kaufman, economics, on "Chronic Unemployment in Pennsylvania"; W. H. Martin, economics, on "The Objectives of an Undergraduate Major in Economics"; and W. M. Hench, economics, panel member, all at the Conference of Pennsylvania Economists at the University of Pittsburgh.

W. R. Weisman, history of art and architecture, an article, "The First Landscaped Skyscraper" in the May issue of the Journal of the Society of Architectural Historians.

R. B. Helfgott, economics, an article titled "Minimum Wages as a Deterrent to Union Organizations: Experience in the British Clothing Industry," in the May issue of Current Economic Comment.

F. P. J. Rimrott, engineering mechanics, a paper titled "Creep of Thick-Walled Tubes Under Internal Pressure Considering Large Strains," at the National Applied Mathematics meeting.

• Lectures

H. P. Zelko, speech, before the Management Course group at the American Management Association meeting, on "Listening as a Management Tool."

C. R. Kinney, fuel technology, at the Gordon Conference on Coal, at New Hampton, N.H., on "Structure of Carbonaceous Materials Related to Coal."

Marjorie East, home economics education, at American Home Economics Association Meeting in Milwaukee, on "A Week to Work."

A. E. Neyhart, Institute of Public Safety, on "Safety Education Five Years from Now," at the third annual American Driver and Safety Education Association conference at Michigan State University.

**Ag Extension Staff
Appointments Made**

Five additions to the staff of the Agricultural Extension Service have been announced:

Paul Q. Smith, 1950 graduate, who was a varsity boxer for three years and has operated a farm at North East, Pa., has been named assistant county agent in Somerset County. Smith has completed some work toward a graduate degree in veterinary medicine at the University of Pennsylvania.

Harry A. Carey, recent graduate in agricultural education, has been named assistant county agent for Elk County.

Herbert C. Jordan, a 1956 graduate in poultry husbandry, has been appointed extension poultry specialist during the absence of Robert G. Lauffer who is on military leave for the next year.

Lawrence V. Rubright, who is a 1946 graduate with a master of science degree in agricultural economics in 1949, has been named extension marketing agent for an eight-county area near Pittsburgh.

Byron P. Hartley, recent graduate in agricultural education, has been named assistant county agent in Erie County.

Dean Weston Honored

Scrolls, campus women's society, has honored Dr. Pearl O. Weston, who retired as dean of women on July 1, with the presentation to the University of a gift of \$200.

The money will be used to purchase books in the field of counseling and guidance.

**Davis, Advertising,
Succumbs June 29**

Donald W. Davis, professor of journalism and head of the department of advertising, died on June 29 at Lewistown Hospital where he had been a patient for the past five weeks. He was 62, and had joined the faculty in 1936.

Richie Succeeds Kogstad

Col. Ellis B. Richie, executive officer in the Inspector General's section, United States Army European Command Headquarters, will succeed Col. Arthur W. Kogstad as professor of military science and tactics on Aug. 15.

Col. Kogstad, who held the post since 1956, will attend the 1959-60 course at the National War College in Washington, D.C.

**Local Government
Institute Closed**

The Institute of Local Government has been discontinued, effective immediately. It was established in 1936 to prepare students for service in local government. Dr. Harold F. Alderfer, now retired from the University and deputy secretary for the Department of Public Instruction of the Commonwealth, was the first head of the Institute.

Matters of Personnel

Dr. Robert A. Sigafos has resigned as acting director of the Institute of Local Government to accept a position as land economist with the Stanford Research Institute, at South Pasadena, Calif.

* * *

J. Cordell Hatch, graduate of the University of Tennessee in 1954 and extension radio editor there, has been named extension radio specialist to fill a vacancy in the Agricultural Extension staff.

* * *

Thomas H. Patton has been named associate director of agricultural and home economics extension. He was formerly assistant director.

* * *

Dr. John F. Corso, professor of psychology, has been granted a leave of absence for the next Spring Semester to work on a book relating to the areas of acoustics and human behavior and to visit laboratories throughout the United States to observe their research techniques and experimental programs in psychoacoustics.

* * *

Dr. Ervin Hexner, who served as visiting professor of political science last year, will continue on the faculty for the 1959-60 academic year as visiting professor of economics.

* * *

Wilmer E. Wise, assistant to the dean of men, has assumed the duties of O. Edward Pollock, who accepted a position as dean of students at Union College. Wise will be in charge of fraternity affairs.

Dr. George M. Guthrie, associate professor of psychology, has been granted a year's leave of absence to accept appointment as research scholar in psychology at Philippine Normal College, in Manila, under a Fulbright grant. He will study the childhood behavior patterns and the process of education of Philippine children.

* * *

Donald W. Marshall, an engineer with the Division of Health in the State of Missouri, has been named to the new position of public health engineer in the department of security. He is to oversee safety and sanitation on the campus.

* * *

Dr. Louis M. Hacker, professor of economic history at Columbia University, has been named visiting professor of history to serve during the fall semester. He has been a member of the economics department at Columbia since 1935.

* * *

Dr. Miriam E. Lowenberg, head of the department of foods and nutrition, has been granted a leave, Aug. 1 to Feb. 1, to study and make observations of the feeding programs in some of the economically underdeveloped countries under the sponsorship of WHO, FAO, and UNICEF, in Senegal, Ghana, Nigeria, Kenya, Iran, India, Philippines, and Vietnam. She also plans to do library work preparatory to writing and collaborating on a book.



STONE VALLEY DAM PROGRESSES

Progress in the construction of the dam on Shaver Creek in Stone Valley is indicated by the moving of earth at the site and construction of culverts which will carry away excess water. The camera is at one end of the dam looking across to the hillside at the other end. Engineers expect to start damming up the creek by Labor Day.

Senate Minutes

Annual Report Committee on Scholarships and Awards

The Senate Committee on Scholarships and Awards wishes to report the following activities for the year 1958-1959.

1. One hundred and six scholarships were awarded.
2. The number of Evan Pugh Medalists was increased to the upper one-half of one per cent of the Junior Class and the upper one-half of one per cent of the Senior Class.
3. Because of a tie, two John W. White Medalists were selected.
4. Nominations were made for Fulbright Fellowships.
5. Grants-In-Aid were reviewed.
6. Suggestions were made to improve the meaning of the terms "Scholarship," "award," and "grant-in-aid."
7. A Freshman Book Award was established. First semester freshmen with a perfect average are eligible for this award.

Annual Report Committee on Academic Standards

During the past year, the Committee studied the following issues related to academic standards at Penn State and in most cases presented a policy recommendation to the Senate:

1. The requirement that military service veterans, like all other students, take four semesters of physical education;
2. A unified policy and procedure whereby the Colleges may recommend dropped students to the Committee for reinstatement;
3. Minimum standards for the establishment and operation of a University Honors Program for superior students.
4. Provision for qualified as well as other undergraduates to enroll for credit in 500-number courses nominally restricted to graduate students;
5. The accommodation of students in established dual-degree programs, e.g., Liberal Arts and Engineering, who earn residence in two colleges concurrently;
6. The establishment of an effective upper limit on the time a student may be enrolled in the Division of Counseling;
7. Implementation of the undergraduate rules for minimum grade point averages to cover odd-, as well as even-numbered, semesters of attendance;
8. Clarification of residence requirements for college graduates who transfer to Penn State seeking a second bachelor's degree;
9. Interpretation of the apparent anomaly whereby academic grade distributions remain constant over the years despite improved quality of entering freshmen; and
10. Provision for realistic use of examinations during evening hours and for the purpose of receiving credit in undergraduate courses.

In addition, the Committee received 286 petitions for reinstatement of individual students and exemption from existing residence requirements. Of these, 243 (about 85%) were approved and the rest denied.

A. D. Brickman, *Chairman*

Annual Report Senate Committee on Athletics

The members of the Committee met twice this year as the Senate Committee, and also three times as the faculty representatives with the Athletic Advisory Board.

The Committee was concerned chiefly with approving athletic team schedules, and, acting through the chairman, with certifying the eligibility of students for participation in the various sports. In 137 separate instances the Committee reported to the Director of Athletics that candidates for varsity and freshman sports, and for managers of those sports, were ineligible.

In the fall 1958 semester, the semester average of the 122 individual letter winners in all eleven varsity sports was 2.42.

This year, for the first time, a medal was awarded to the student who best combined scholarship with athletics. Ted Kubista, varsity basketball player, who had an all-University average of 3.48 for seven semesters in the College of Chemistry and Physics, received the award.

In February, the Committee, after reviewing its functions and procedures as outlined in the Senate Constitution and By-Laws and in the Senate Regulations for Undergraduate Students, decided that no changes were advisable.

The Committee appreciates the arrangements made by Mrs. Royer for assistance with the heavy load of preparing excuses for students on athletic trips.

M. Nelson McGeary, *Chairman*

New Institute For Public Administration

To aid in the training of personnel, conduct research, and offer assistance to government agencies at all levels, an Institute of Public Administration has been established, effective Sept. 1.

Operating as a unit of the College of the Liberal Arts, the Institute will cooperate with similar units at other Pennsylvania universities in the conduct of in-service training programs and in research and the publication of research findings. A director of the Institute is yet to be named.

One purpose of the Institute will be to interest students in careers in public service and assist in providing educational opportunities and instruction for these students. It will also promote conferences and non-credit training programs for officials of Federal, State and local government.

Teachers Institute Schedule Announced

A series of addresses by prominent science educators, part of the program of the University's Institute for Teachers of Science and Mathematics, will continue on Tuesday, July 14 with a talk by Dr. C. A. Tryon, Jr., director of the Pymatuning Laboratory of Field Biology.

Dr. Tryon will speak on "The Pymatuning Program in Ecological Research," at 4:15 p.m. in the HUB assembly room.

The purpose of the Institute is to update and re-acquaint high school science teachers with their subject matters. The addresses, however, are open not only to the teachers but to the general public.

Other speakers in the series include:

Thursday, July 16 — Dr. Gerhardt Derge, department of metallurgy, Carnegie Institute of Technology, on "Metallurgy," 4:15 p.m., 214 Boucke.

Saturday, July 18—Dr. Edward Hae-nisch, director of science institutes, National Science Foundation, on "N.S.F. Services in Educating Science and Math Teachers," 9:15 a.m., 214 Boucke.

Tuesday, July 21—Dr. W. L. Duren, Jr., dean of arts and sciences, University of Virginia, on "Modern Mathematics," 4:15 p.m., 214 Boucke.

Thursday, July 23—Dr. J. G. Leach, head of the department of plant pathology, bacteriology, and entomology, West Virginia University, on "Localizing Instruction in High School Biology," 4:15 p.m., 214 Boucke.

Tuesday, July 28—Dr. Luciano Fonda, department of physics, University of Trieste, on "Strange Particle Problems," 4:15 p.m., HUB Assembly Room.

Tuesday, Aug. 4—Dr. David E. Davis, professor of zoology, Penn State, on "The Role of Behavior in Controlling Vertebrate Populations," 4:15 p.m., HUB Assembly Room.

Calendar

Friday, July 10

Claremont String Quartet lecture-recital, 8:30 p.m., Hetzel Union Building assembly room.

Mateer Playhouse at Standing Stone, 8:40 p.m., "The Spider's Web," by Agatha Christie.

Saturday, July 11

Square Dance, HUB Ballroom, 9 p.m., for faculty and students.

Mateer Playhouse, Standing Stone, 8:40 p.m., "The Spider's Web."

Sunday, July 12

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. The Rev. Preston N. Williams. Band Concert, 7 p.m., The Mall or Schwab Auditorium.

University Christian Association graduate fellowship, 5 p.m.

Reception of Summer Art Faculty Exhibition, 3-5 p.m., for students, faculty, and residents, in HUB art gallery.

Monday, July 13

Student Sing, Schwab Auditorium, 8 p.m., with Hummel Fishburn, Frank Gullo, and E. C. Wareham, Jr.

Duplicate bridge, HUB cardroom, 7 p.m. Activity period, Recreation Building, 7:30 p.m. to 9:30 p.m., with badminton, volleyball, basketball, handball, for men and women.

Mateer Playhouse production of "The Barretts of Wimpole Street," 8:40 p.m., Standing Stone.

Tuesday, July 14

Claremont String Quartet concert, HUB ballroom, 8:30 p.m.

Chess Club meeting, HUB card room, 7 p.m. Mixed Swim, Glennland pool, 8-9:30 p.m.

Mateer Playhouse production of "The Barretts of Wimpole Street," 8:40 p.m., Standing Stone.

Wednesday, July 15

Outdoor movie, "The Female Animal" 9 p.m., lawn south of HUB (Schwab Auditorium in case of rain).

Activity period, Recreation building, 7:30-9:30 p.m.

Phi Delta Kappa (Education honorary) chicken barbecue, 5 p.m., Holmes-Foster park. Mateer Playhouse production, 8:40 p.m., Standing Stone.

Thursday, July 16

Mixed Swim, Glennland pool, 8-9:30 p.m.

Friday, July 17

Claremont String Quartet lecture-recital, HUB assemblyroom, 8:30 p.m.

Mateer Playhouse production, 8:40 p.m., Standing Stone.

First Six-Weeks Summer Session ends, 6:20 p.m.

Mateer Playhouse Has Barretts Of Wimpole Street

The Barretts of Wimpole Street, by Rudolph Beiser, will be the fourth production at Mateer Playhouse at Standing Stone, opening Monday, July 13 and continuing through Saturday, July 18.

The play is the story of the romance between the poets Elizabeth Barrett and Robert Browning and will star Esther Benson as Elizabeth, Ronald Bishop as Browning, and Leon Stevens as Sir Edward.

Claremont String Quartet Concerts

The Claremont String Quartet will continue its series of lecture-recitals and concerts this evening at 8:30 p.m. in the Hetzel Union Building Assembly Room with a lecture-recital.

Other lecture-recitals during the summer will be given on July 17, July 21, and July 31.

The concert series will include programs on Tuesday, July 14; Sunday, July 19; Tuesday, July 28; and Thursday, Aug. 6. Concerts are given in the Hetzel ballroom at 8:30 p.m.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Thistle From A Pillow

Flora Finder

Botanists like Walter F. Westerfeld find the Central Pennsylvania area an interesting field for study. With colleagues at the University of Pennsylvania, the flora of the State are being thoroughly catalogued.



MANY years ago, the story is told, a Scotsman (or Irishman) brought from the old country a fine pillow. Over the years the pillow served its purpose and was discarded, thrown out of the cabin into the open fields.

Soon the weather took its toll of the cloth, and bared the soft thistledown to the elements. The seeds took hold in the new country and the thistle plant had established itself forever in the soils of Pennsylvania.

"Not all our plants have such interesting beginnings," says Walter F. Westerfeld, instructor in botany, "but many have come to us in stranger manner. Some, of course, could not survive for more than a generation or two, but others are now quite common.

"At any rate, botanists are always curious about what plants exist in their areas and as long as new plants are going to thrive you'll see a botanist out making collections of plants for his herbarium. The job of collecting is never done."

Author of a new bulletin published by the College of Agriculture Experiment Station, titled "Flora of Centre and Huntingdon Counties," Westerfeld is one of several in the department of botany cooperating with their col-

leagues at the University of Pennsylvania in cataloguing the flora of the State. Dr. Herbert A. Wahl, professor of botany, has for many years been collecting for Penn State's herbarium and before him others, ever since the founding of the University, have studied the area.

At present, there are 1639 different plants annotated for the two-county area of 2036 square miles. There may be more, but Westerfeld doubts that it would be as many as a hundred more; he is certain there aren't fewer plants.

"Although the fact is," he points out, "that plants do 'go out of style', as you might put it. In Bear Meadows right now an inevitable, if slow, process is going on which will gradually eliminate certain species."

Bear Meadows is an area south of

State College which has been one of the delights of the botanist because it contains many plants which should be strange this far south. In the middle of the area is a peat bog containing a number of plants which depend on cool temperature and moist conditions. Gradually, however, the temperature in the area is rising and the bog is drying up. Hemlock, oaks, maples and other slope plants are encroaching on the area.

The origin of some plants in the two-county area is open to question, Westerfeld admits. Many, of course, are native, but most of the forage grasses and all of the clovers were brought from Europe. Within recent years, naturally, ornamentals from many parts of the world have been introduced to settled areas.

Some of the flowering plants introduced into gardens by the early settlers are now considered weeds: for example, Westerfeld points out, a plant called Dame's violet (*Hesperis matron-*

Continued on page two

FLORA —

Continued from page one

alis) which resembles phlox. Bittersweet, or climbing nightshade, is a vine of the potato family, with red berries, supposedly poisonous, and it, too, came from Europe with the pioneers.

"Toadflax, more commonly known as butter-and-eggs," says Westerfeld, "was introduced as a garden plant in the early 1700's and became firmly established. One early botanist wrote about the plant:

"It is the most hurtful plant to our pastures that can grow in our northern climate. Neither the spade, plough, nor hoe can eradicate it, when it is spread in pasture . . . It is now spread over great part of the inhabited part of Pennsylvania. It was first introduced as a fine garden flower; but never was a plant more heartily cursed by those that suffer by its encroachments."

Chicory was also introduced from Europe, and the roots of the plant were used as a coffee additive or substitute. The light blue flowers of the plant are now a familiar sight along the highway but farmers no longer grow chicory to use as coffee.

"The flora of an area undergoes many natural changes," Westerfeld says, "but the greatest changes take place because of man. Animals, birds, and even the weather are important influences too.

"But even if a plant is introduced purposely there is no assurance that it will remain unless given special treatment. Other plants may crowd out the newcomer.

"In other words, if a plant isn't here, it may be because it could not live here in this soil and with this climate."

A botanist making a survey of a county would of course have to know at the least the family and genera of plants likely to be found in the area and it would be helpful also if he knew the area itself. Generally, a county is divided into six "stations" which fairly represent the topography, weather, and soil conditions of the area. Arising early, the botanist tries to cover thoroughly an area of roughly five acres in one day.

Collecting in the field, Westerfeld explains, involves placing the individual plants between newspapers and making notes about the growth of the plant. If the weather is extremely warm, the plants may be packed in a box which has dry ice, so that as much natural color is retained as possible. The field work can be backbreaking.

"Back at the laboratory," he continues, "we place the plants between dry newspapers, then store them in a 40 deg. F. room for a couple of days, then put them in a drier. Drying right from the field results in loss of color."

For an area such as Centre and Huntingdon counties, the family and genus of the plants would probably be known to the experienced botanist, but perhaps not the species. Then comes a search through the reference books and perhaps a call on colleagues elsewhere.

"Actually," Westerfeld says, "we

haven't been stumped on materials here for some time."

In addition to Bear Meadows, Westerfeld makes special note also of The Barrens, a 50,000 acre area between Bellefonte and Birmingham, in Huntingdon County. The soil is a complex mixture of sand, silt, and clay, and contains deposits of iron ore. The Indians, Westerfeld surmises, probably gave the area its name, in reference to their unproductive corn patches, but white man's cutting of timber, development of industry, and frequent fires have made the name more applicable. It is now largely scrub oak, with patches of aspen, pitch pine, blueberries, and grassy frost pockets.

"But the flora," Westerfeld explains, "is more complex than most people think and the area constitutes the greater portion of the world's distribution of Reed's bentgrass, *Calamagrostis Porteri*."

Other areas are also of special interest to botanists. For example, in several small areas north of State College and also near Spring Mills are to be found a number of species of plants, such as thimbleweed, Scribner's panicum, and tall dropseed, normally seen on the prairies.

Westerfeld's study of the two-county area is part of an overall attempt by botanists in the State to catalogue every county eventually. Such studies have economic importance as well as scientific. Besides, there may be new species hiding in relative obscurity now which could be of major value to mankind.

"You don't know what plants are there unless you look," Westerfeld concludes, "and look not once but often. Probably ten years from now it will be worthwhile for us to consider issuing another bulletin on the flora of this area."

Westinghouse, AEC Grants Made

The University is in receipt of grants from the Westinghouse Electric Corporation and the Atomic Energy Commission which will make it possible to undertake a major expansion of the nuclear research program.

Westinghouse provided \$209,000 to assist in the purchase of a \$359,000 particle accelerator, which is described as a tool performing the same function for the nuclear physicist as the telescope for the astronomer and the microscope for the bacteriologist.

The AEC has authorized a three-year grant of \$571,400 for special equipment and research support.

The accelerator is a 5,500,000 electron volt Van de Graaf positive ion accelerator which, with the "swimming pool" reactor installed in 1955, will enable the University to strengthen and broaden the program of atomic research and provide a source of research personnel for the State and country.

Funds will be sought from the General State Authority for construction of a building to house the accelerator.

Faculty Urged To Attend SS Commencement

Faculty members are urged to attend Summer Sessions Commencement Exercises on Friday, Aug. 7, at 7 p.m. on The Mall in front of Pattee Library, or in Recreation Building in case of rain.

A special section of seats has been set aside for the faculty members and their wives. All faculty members, not only those teaching during Summer Sessions, are invited. There will be no procession of faculty members, nor will academic regalia be necessary.

Music, beginning at 6:45 p.m., will be provided by the Summer Sessions Band and the Summer Sessions Chorus will sing two numbers.

Candidates for degrees are advised that dinner will be available for themselves, their parents, and their friends in the Waring Hall dining room, but tickets, priced at \$1.50, must be purchased before July 31, at the Food Service Office, 109 Waring Hall, in person or by mail.

Candidates are also advised that they must order academic robes by Friday, July 31, at the Athletic Store.

It should be noted that the original time of Commencement was listed as 7:30 p.m., but the time has been advanced to 7 p.m.

FAE Gives Aid To Ag Extension

Assisted by a \$40,000 grant from the Fund for Adult Education, the Agricultural and Home Economics Extension Service will inaugurate an experimental program in Erie and Adams counties in September.

The program will seek new approaches by Extension in its work with farm families and others in the Commonwealth. Extension Director Dr. H. R. Albrecht announced that the project will continue for two and one half years and will be patterned somewhat after an extension program in agricultural policy and public affairs already underway.

Pennsylvania is one of six states, along with Arizona, Illinois, Michigan, Montana, and Texas, selected for the pilot project.

Wesley R. Kriebel, extension marketing agent, and John W. Bergstrom, assistant county agent, have been relieved of their duties to head up the work in the two counties as problem consultants.

Language Exams Listed

The regular written Foreign Language Examinations will be held on Monday, July 27, at 7 p.m.; those in German in 217 Willard, in French and Spanish in 10 Sparks, and those in English in 205 Sparks. The conflict examination in French and Spanish will be held on Tuesday, July 28, at 7 p.m. in 9 Sparks.

Leaves of Absence Aid Faculty and University

LAST year a total of 102 leaves of absence for faculty and staff members were reported to the Board of Trustees and this year to date 85 have been announced, not including leaves for military service.

Who takes a leave of absence? What are the rules governing leaves? Why does the University permit leaves of absence, and encourage them among members of the faculty?

"The Board of Trustees believes that all leaves of absence granted," says Lawrence E. Dennis, vice-president for academic affairs, "should be of value not only to the individual but to the University as well. Most colleges and universities encourage eligible faculty members to take sabbatical leaves because there is mutual benefit for the institution and the individual."

Sabbatical leaves of absence — which carry a stipend of a half-year's salary — were granted to 22 faculty members last year and in 1959 have been granted to 34 so far. Only academic personnel are eligible for this type of leave, which is designed to encourage study, travel, writing, research, or work which will advance the person in his profession.

The policy of leaves, as revised February 1 of this year, states that academic personnel who have served in a professorial rank for six years are eligible for sabbatical leaves, as are academic administrators who have served for the same length of time and county agents or home economics extension representatives who have served for 10 years.

For those of academic rank below assistant professor, a graduate study leave, which has a stipend of up to \$125 a month for one year is available to those who have served for two years or more to permit graduate study on a full-time basis. This year so far, 12 members of the faculty have been granted this type of leave. Although no stipend is granted beyond the first year, the total leave may extend for as much as three years.

A third type of leave is that without salary, carrying nevertheless certain benefits of value, and this leave is available to all regular employees of the University. It may be granted for travel, study, or research, sickness or maternity, and for "any other reason determined to be at the convenience of the University" but not for extended active military duty. Last year a total of 75 leaves of this type were granted and to date in 1959 a total of 39 have been approved.

Leaves without salary permit the employee to retain membership in group life and hospital expense insurance, and the wife and children of the employee also retain their educational privileges.

Although there are some reasons (for example, financial exigencies) which make it impossible for the University to guarantee that the employee will have his position on the expiration of the leave, seldom is it denied him and the University makes every effort to make that position or its equivalent available.

On accepting a leave of absence with salary or a graduate study leave, the employee assumes the obligation of returning to the University at the expiration of the leave for a period of two years, or to return the money received during the leave period. This is not true for those on leave without salary, although the employee is *expected* to return to active service.

In most cases a leave is granted for a period of no more than 12 months, but many leaves are extended, without salary, after the request for extension is reviewed. The average length of leave granted last year was for six months, but 42 of the leaves were for a full year.

Full and associate professors are more likely candidates for leaves among the academic ranks, last year nearly 40 per cent of those on leave being from those ranks.

In recent months announcements of leaves indicate that a number of faculty members are recipients of honors which permit them to take leaves. Dr. John A. Sauer and Dr. John G. Aston, for example, received Guggenheim Fellowships for study abroad; Dr. Lawrence E. Fouraker and Dr. Will Mason a Ford Foundation Fellowship; J. Herbert Moore, a Standard Oil Foundation Fellowship; Dr. Norman Davids, a Fulbright grant, for study in Israel; and Dr. George M. Guthrie a similar grant for research in The Philippines. Many others accept assignments for important research or administrative duties abroad sponsored by governmental organizations.

Chapel Choir Leaves On European Tour

The Chapel Choir, under the direction of Mrs. Willa C. Taylor, professor of music, departed for Europe Wednesday from New York in a tour which will take the group to England, Germany, Poland, Denmark, Norway, Sweden, and Scotland.

They will embark for the United States on Aug. 27 from Scotland, where the tour concludes with a visit to the Edinburgh Fair and concerts by the Royal Philharmonic Orchestra and the Royal Stockholm Opera.

This is the third tour by the choir; the group also went abroad in 1955 and 1957.

Matters Of Personnel

Frances E. Hyslop, Jr., professor of history of art and architecture, will continue his studies of the Belgian painter, Henri Evenepoel, during a leave of absence from Sept. 1 to Jan. 31.

* * *

William H. Hassler, former assistant dean of men at Texas Tech College, has assumed the duties of assistant to the dean of men at Penn State. He was a residence halls counselor and West Halls coordinator in 1956 while receiving his master's degree. He is a graduate of Grove City College.

* * *

Dr. James E. Montgomery, head of the department of housing and interior design at Oklahoma State University, will become professor of housing and home art on Aug. 1. A native of Tennessee, he obtained the bachelor's degree from Maryville College and master's and doctor's degrees from Vanderbilt University. In addition to work with the U.S. Department of Agriculture and the Federal Public Housing Administration, he has taught at Cornell as well as Oklahoma State. He has conducted research in The Netherlands, under a Fulbright Grant, and in Alabama, Mississippi, Georgia, New York, and Oklahoma.

Items of Interest

• Elected or Appointed

H. B. Curry, mathematics, as a delegate from the International Academy for the Philosophy of Science to the International Union for the History and Philosophy of Science, representing the Academy at the meeting of the philosophy section of the Union in the summer of 1960 at Stanford University.

F. B. Krauss, Romance languages, as presiding officer at the recent meeting of the American Classical League at Phillips Exeter Academy.

• Articles and Papers

Louis Dupree, anthropology, editor of "Anthropology in the Armed Services," published by the Social Science Research Center.

P. T. Baker, anthropology, an article in the above publication, titled "Anthropology and the Army."

H. B. Sprague, agronomy, served as editor of "Grasslands," a book containing technical papers of a symposium of the American Association for the Advancement of Science, Dec. 1956.

• Lectures

Miriam E. Lowenberg, foods and nutrition, at the American Home Economics Association meeting, on "The Child in Child Feeding."

Frances M. Andrews, music education, guest lecturer in the first Master-Teacher Seminar at the New England Conservatory College of Music, at Boston, Mass.

New Degree Work Offered In Business Administration

A program designed to develop advanced professional competence in the various fields of business administration and leading to the degree of Master of Business Administration, has been set up on the recommendation of the Graduate School faculty.

The professional degree, it is explained, is designed for the practitioner interested in advancing in his profession. Other professional degrees offered by the University include doctor of education and masters of agriculture, education, engineering, forestry, and public administration.

The new degree is designed primarily for graduates of non-business curricula, and emphasizes business and economic subjects.

Films To Be Previewed

Films listed below have been requested from producers. Please call Extension 2051 and give code number of those you would like to see; you will be notified when they arrive so that you can arrange a preview showing in Room 9, Library.

- J-1 Mr. Hare and Mr. Hedgehog (folk tale done in silhouette style)
- J-2 On the Bowery (Skid Row)
- J-3 Father of the Southwest (planting of civilization in Southwest by pioneer)
- J-4 Flowering Desert (nature study)
- J-5 As Boys Grow (health and hygiene)
- J-6 Art and You (elementary art appreciation classes)
- J-7 Mexican Village Coppermakers
- J-8 Wild Animal Families
- J-9 Grandmother Bakes Bread
- J-10 Indian Artists of the Southwest
- J-11 On Stage: Doctor in Spite of Himself (Monty Woolley)
- J-12 On Stage: King Lear (Monty Woolley)
- J-13 The Cold Spring Idea (problems of old age and retirement)
- J-14 End of Summer
- J-15 Proud Citadel (Florence, Italy)
- J-16 Space Pioneer
- J-17 Signals for Missiles
- J-18 Vanguard I
- J-19 And Gladly Teach
- J-20 A Study of Crystals

Brass Ensemble Concert July 26

A varied program of music will be presented by the Philadelphia Brass Ensemble in its program of Sunday, July 26 on the south lawn of the Hetzel Union Building, at 8:30 p.m. In case of rain the concert will be given in Schwab Auditorium.

Included in the program are selections by Gabriel, Bach, Telemann, Handel, Pezel, Poulenc, Hovhaness, Frackenpohl, and Uber.

The ensemble is composed of Gilbert Johnson, Samuel Krauss, and Seymour Rosenfeld, trumpets; Mason Jones, horn; Henry S. Smith III, trombone; and Abe Torchinsky, tuba. All are members of the Philadelphia Orchestra.

Exhibit At Library

An exhibit depicting the growth of Summer Sessions is being displayed in the foyer of Pattee Library. Assembled by Margaret T. Riley from materials in the Penn State Room, the display points out that Summer Sessions started in 1910, and traces its development since then.

Thomas Dies

Gilbert Davis Thomas, who retired as associate professor of industrial engineering last year, died last Saturday in Philadelphia. He had served the University since 1927, when he joined the engineering extension staff. He became a member of the industrial engineering department faculty in 1934.

Project Approved Under NDE Act

One of the first research projects approved under Title VII of the National Defense Education Act of 1958 will support research in audio-visual aids materials.

Dr. Gerald M. Torkelson, associate professor of education, is in charge of the project for which \$165,747 was appropriated by the U.S. Department of Education under the Act.

Ways in which audio-visual materials can be used more extensively and effectively will be studied.

Music Programs Listed

The program of the Claremont String Quartet will continue on Sunday, July 19, with a concert in the Hetzel Ballroom at 8:30 p.m. The same group will give a lecture-recital at 8:30 p.m. in the HUB Assembly Room, on July 21.

The week's activities will also include a Student Sing, at 8 p.m. in Schwab Auditorium, led by Hummel Fishburn, Frank Gullo, and E. C. Wareham.

On Thursday, July 23, the Summer Sessions Orchestra, under the direction of Theodore Karhan, associate professor of music and music education, will present a concert in Schwab Auditorium, at 8:30 p.m.

FAE Announces Awards For Leadership Books

The Fund for Adult Education has announced that six awards of \$1,000 each will be given for the best book outlines on the subject of "Executive Leadership in the United States."

Commissions of \$8,000 each may also be given to one or more award winners to permit development of their outlines into book-length essays.

All entries must be received by the Foundation by Dec. 15, 1959.

The outlines may deal with one or all of the following distinct but inter-related themes: (a) What is the nature of executive leadership? Where and how is it exercised in American society? How does such leadership emerge and how does it advance in authority and responsibility? (b) What are the major problems which executive leaders face in common? (c) What kind of education can best motivate individuals to assume the responsibilities of leadership and best equip them to understand the challenges of the times and meet them creatively and with informed devotion to the public welfare?

Additional information may be obtained from the Office of Information, The Fund for Adult Education, 200 Bloomingdale Road, White Plains, N. Y.

Calendar

Friday, July 17

Claremont String Quartet lecture-recital, HUB assembly room, 8:30 p.m.
Mateer Playhouse production, 8:40 p.m., Standing Stone.
First Six-Weeks Summer Session ends, 6:20 p.m.

Saturday, July 18

Institute for Teachers of Science and Mathematics talk by Dr. Edward Haenisch, director of science institutes, National Science Foundation, 9:15 a.m., Room 214, Boucke.
Mateer Playhouse production of "The Barretts of Wimpole Street," 8:40 p.m., Standing Stone. Last night.
Square dance, 9 p.m., HUB hall room.

Sunday, July 19

Chapel Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Preston N. Williams, assistant University chaplain.
UCA Graduate Fellowship meeting at Presbyterian Student Center, picnic and discussion.
Claremont String Quartet Concert, 8:30 p.m., HUB hall room.

Monday, July 20

Student Sing, 8 p.m., Schwab Auditorium.
Mateer Playhouse production of "Cat on a Hot Tin Roof," 8:40 p.m., Standing Stone. (Runs for two weeks.)
Duplicate bridge, HUB cardroom, 7 p.m.
Activity period, Recreation Building, 7:30 p.m. to 9:30 p.m.

Tuesday, July 21

Lecture-recital by Claremont String Quartet, 8:30 p.m., HUB assembly room.
Chess Club meeting, Room 7, Sparks, 7 p.m.
Mixed swim, Glennland pool, 8-9:30 p.m.
Mateer Playhouse production of "Cat on a Hot Tin Roof," 8:40 p.m., Standing Stone.
Lecture by Dr. Paul Hoffman, director, Special Fund for the United Nations, 8 p.m., Schwab Auditorium, on the program of the International Understanding Workshop.
Talk by Dr. W. L. Duren, dean of arts and sciences, University of Virginia, on "Modern Mathematics," 4:15 p.m., Room 214 Boucke.

Wednesday, July 22

Outdoor movie, 9 p.m., on lawn south of HUB, or Schwab Auditorium in case of rain, "Bend of the River."
Activity period, Recreation Building, 7:30 p.m. to 9:30 p.m.
Mateer Playhouse production of "Cat on a Hot Tin Roof," 8:40 p.m., Standing Stone.

Thursday, July 23

Concert by Summer Sessions Orchestra, Theodore Karhan conducting, 8:30 p.m.
Mateer Playhouse production of "Cat on a Hot Tin Roof," 8:40 p.m., Standing Stone.
Mixed swim, Glennland Pool, 8-9:30 p.m.
Lecture by Dr. J. G. Leach, West Virginia University, on "Localizing Instruction in High School Biology," 4:15 p.m., 214 Boucke.

Friday, July 24

Mateer Playhouse production of "Cat on a Hot Tin Roof," 8:40 p.m., Standing Stone.

Mateer Playhouse Features Hit Play

Tennessee Williams' play "Cat on a Hot Tin Roof," concerned with the Deep South, will open at Mateer Playhouse at Standing Stone and run for two weeks.

Max Fischer directs the play, which will feature Don Petersen, as Brick, and Lydia Bruce, as his wife, Maggie. Charlotte Jones has the role of Big Mamma."

Three children, all from State College, who are members of a special class in creative dramatics taught by Dr. Walter H. Walters, head of the department of theatre arts, will be featured in the production. They are Frances Williams, Eric Zimmerman, and Robert Holtzman.

The first "open house" program has been scheduled for Sunday, July 26, from 2:30 to 4:30 p.m.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Industry Aids

Cooperative Program In Metallurgy In 23rd Year

Since the inception of the Cooperative Program in Metallurgy in 1936, more than \$100,000 has been contributed to the work of the department of metallurgy by industry, Dr. Amos Shaler, head of the department, reveals.

The money has been used to sponsor major basic research projects, launch new faculty members in their chosen research fields, establish stipends for graduate assistants and fellows working for advanced degrees, provide undergraduate scholarships, and buy supplies and equipment.

Dr. Charles Austin, professor of metallurgy in 1934-1945, conceived the idea of the cooperative program and in 1936 contacted several Pennsylvania steel companies to obtain sponsorship for certain research work of interest to them. He suggested that the firm should jointly sponsor the project and share in the results, and pointed out that departmental research in a cooperative venture could derive benefits at a fraction of the cost of individual efforts.

Today some 20 companies are participating in the program: Alco Products, Inc., Aluminum Company of America, American Smelting and Refining Co., Avco Manufacturing Corp., Baldwin-Lima-Hamilton Corp., Bethlehem Steel Co., Carpenter Steel Co., Crucible Steel Co. of America, Dow Chemical Co., Ford Motor Co., International Nickel Co., Jessup Steel Co., Jones and Laughlin Steel Corp., Latrobe Steel Co., Reynolds Metals Co., St. Joseph Lead Co., U.S. Steel Corp., Westinghouse Electric Corp., and Youngstown Sheet and Tube Co.

"Some evidence of the satisfaction these companies have in the arrangement," Dr. Shaler says, "can be seen in the fact that six of these companies have maintained their membership in the program for 10 years or more and 16 companies for at least four years."

How does the program help the sponsoring industries?

"All the participating companies," explains Dr. Shaler, "are kept informed of the results of the research through meetings, special reports and abstracts, and pre-publication copies of theses and technical papers."

Also, the department often helps the companies solve pressing personnel needs by providing well-trained graduates to take over technical jobs. Summer employment in industry of undergraduate and graduate metallurgy students is another by-product of the program.

Each firm participating in the program provides the department with a sum of money, the exact amount of which is set at the annual meeting of industrial and department representatives. The amount for all is the same; last year it was \$850. In recent years the contributors have been given the choice of earmarking their gifts for research or scholarship or dividing between the two. In many cases the company leaves the allocation of their gifts to the department's discretion.

An executive committee is elected annually to draft policy and handle operational details of the program. Three industrial representatives serve along with Dr. Shaler.

The greatest growth in the program has occurred in the past eight years. Since 1951 annual contributions have averaged about \$13,000; the total last year was \$15,750.

124 Students Earn Perfect Average

A total of 936 students were listed on the honor rolls of the various Colleges for the Spring, 1959, semester and 124 of these students attained perfect 4.0 averages.

Those listed on the honor roll represent 6.3 per cent of the total.

By Colleges, the numbers of students are as follows:

College	Total	4.0 Ave.
Agriculture	76	8
Bus. Adm.	68	9
Chem-Phys	95	11
Education	283	53
Eng. & Arch.	148	18
Home Econ.	37	0
Lib. Arts	160	20
Min. Ind.	42	4
Phys. Ed.	18	0
Couns.	9	1
Total	936	124

Deadlines Announced For Midsession Grade Reports

Instructions for the reporting of grades at the end of Mid-Session have been given by Dr. Robert G. Bernreuter, dean of admissions and registrar.

1. Grades for all students, including graduate students who are to receive degrees at the August Commencement Exercises, must be reported to the Registrar's Office, Room 4, Willard Building, not later than 9:00 a.m., Wednesday, Aug. 5.

2. Grades for all other students, including graduate students, must be reported to the Registrar's Office, Room 4, Willard Building, within 48 hours after the final examination or, in case of research grades, not later than 9:00 a.m., Monday, Aug. 10.

3. Final examinations will end at 6:20 p.m., Friday, Aug. 7.

Grade cards may be deposited at night or after hours in depositories in the southeast door, ground floor rear, and the northeast door, first floor front, Willard Building.



Farming is still in the hands of the family unit say these agricultural economists but the modern farmer must make use of all the aids of the mechanical age he can to compete today. Left to right are R. H. McAlexander, W. L. Barr, R. F. Hutton, and J. K. Pasto.

Farming Using Electronic Brains To Match Industry's Efficiency

THERE is no serious threat that Pennsylvania farms will become large corporate units but farmers of the future will make use of many techniques modern corporations employ today to assure economical operation.

This is the view of agricultural economists Drs. Robert H. McAlexander, Robert F. Hutton, Jerome K. Pasto, and William L. Barr.

"Already some farmers," says McAlexander, "are getting the help of electronic brains to plan their crop and livestock programs, to determine their feed combinations for dairy cows and other livestock. Linear programming will become a familiar term in the agriculture industry."

Some fears have been expressed in the press that agriculture is becoming such a big business that individual families will no longer be able to compete with groups of investors who will view the farm as just another commercial enterprise, and who will be interested only in a quick profit off of the land.

"It certainly does require a bigger investment today to run a modern farm," Hutton agrees, "but in Pennsylvania, and I think largely throughout the country, farming is still in the hands of the family who work the land."

Farms are getting larger, perhaps more so in other states than in Pennsylvania, but this trend is more the result of the elimination of very small farms which produce little rather than the consolidation of several farms to turn the area into big business. In the midwest, Pasto explains, farms of 640 acres or more have not been uncommon because it has been physically possible to operate them. With the wider mechanization of farming, he points out, one man can do so much more than

his predecessor that it is easy for him to handle vast acreages.

"We have a few statistics for Pennsylvania which may help to show the effects of machinery," Barr says. "In Blair, Crawford, and Wayne counties we studied the changes in farm labor from 1942 to 1956 to see how mechanization was doing. In the three counties in 1942, the operator supplied 48 per cent of the labor for the year's operation, but in 1956 he supplied 60.9 per cent. Labor hired by the month dropped from 27.6 per cent to 16.8 per cent of the total labor supplied."

Similar stories are apparently being told elsewhere. The horse has disappeared from Pennsylvania farming to be replaced by powerful tractors, but more important, perhaps, is the fact that new equipment for planting, cultivation, spraying, and harvesting, permits a larger unit to be operated with family labor, and the hired hand is going out of the picture.

"Dairy operations," says McAlexander, "no longer require the hand labor they once did, so the herds are increasing in size also. There are still many herds of 10 cows or less, with the average size herd between 20 to 30 cows, but there are many herds of 75-100 cows and a few with more than 100 cows."

All of this, the economists explain, requires a greater capital but it also

requires better planning. It is a testimony to our farmers that they have acquired new skills in management which makes it possible for them to operate larger units than formerly.

"It may be too much for any farmer to figure exactly what his feed rations must be to give him the greatest profit," says Hutton, "but he'll be able to get help, through the use of PENNSTAC at Penn State and similar equipment at other institutions.

"Let's say that he wants to figure what feeds to buy, with certain conditions on his own farm assumed. The operator of the computer will be given certain data regarding the price of milk, another set of data concerning the hay and grains available on the farm, etc. Then the machine will be asked to determine what feed to buy when the price is a certain figure.

"The machine can also be used to tell the farmer whether to cull certain cows from his herd or whether to renovate his pasture or let it revert to trees.

"Ten years ago the farmer had no such help and while the machines will probably never have the answers to all of his questions, they will help him in organizing the information available for more efficient decisions."

The result of these practices, the economists believe, will be not so much to change the ownership of farms but to take out of production areas which are better off being used for other purposes.

"There may always be a place for the fellow who loves to farm while at the same time holding down a job in town," says Pasto, "but he won't be able to compete and he won't make any real impression on the total production picture. He'll find that it costs more to produce his milk than he gets for it, and the poultry eat up more feed than they're worth."

A study made four years ago showed that about 24 per cent of the farms of the State are classed as "residential" or having gross sales of less than \$250, while some 23,000 farms are classed as "part-time operations." The two groups represent less than 10 per cent of the total value of products sold.

"If there is a labor problem in agriculture today," Barr says, "it has resulted from 'underemployment,' which means that the very small farm does not provide enough productive work to keep the operator busy and to make it possible for him to earn a good livelihood.

"Many farmers could add to their acreage without adding to their labor because modern machinery makes it possible for him to do so much more.

"But some of the people who are now listed as farmers should be helped out of farming — trained for other work — rather than providing them with support programs which are not needed by the better farmers.

"Linear programming can't do enough good for these people, but it can for the better farmer whose approach to farming is as businesslike as the modern corporation."

Construction In Progress



R. H. Wherry, right, head of the department of commerce, passes the proceeds of a "pass the hat" campaign over to Edna Myers, of Erie, enrolled in the University's Speech and Hearing Clinic. Insurance men on campus for an institute gave the money.

Insurance Men Aid Handicapped

An enduring friendship between two groups of visitors to the campus is revealed in the story of the insurance men and the youngsters of the speech and hearing clinic.

Twelve years ago the youngsters attending the annual summer clinic for those with speech and hearing defects spilled out into the basement hallway of Sparks Building at about the same time the men attending the annual Life Insurance Marketing Institute were breaking up one of their sessions.

The men noticed that some of the children were poorly clothed, so, as Ralph H. Wherry, professor of insurance who was in charge of the group explains, what was more natural than for the men to do something about the youngsters' plight. After all, insurance agents see about as much of poverty as most people.

"They asked Dr. Asa Berlin," he continues, "if they could take the kids downtown and buy some shoes, dungarees, and other apparel. Each year since then this group has taken up a collection, which varies in amount from year to year, for use by the Speech and Hearing Clinic group."

Says Dr. Berlin about the contribution: "One fine thing about their contribution is that we can use it any way we want to. Some years a youngster might need a hearing aid and we use the money for that. In another year, the kids get a picnic, visit to a cave, or help in publishing their magazine."

In most cases, Dr. Berlin explains further, the parents do provide sufficient funds for the children, but for those unable to pay, service clubs and the State's cleft palate program pick up the check.

Typical of the youngsters is Jerry Smith, who hopes one day to attend West Point. He's working hard to lick his speech problem — stuttering — and he's making real progress.



Two construction projects in one show in this photo of the area where the new women's recreation fields are being built at the site of the former Jordan Fertility Plots. In background is the Pollock Circle Residence Hall project.



New Beaver Field looks like this at present time. The round concrete footers will hold the steel frame which will be moved from old Beaver Field at the conclusion of the fall season.

Ag Communications Wins Seven Awards

The American Association of Agricultural College Editors has granted seven awards for information entries submitted by College of Agriculture communications staff members in competition with exhibits from other Land-Grant colleges and universities throughout the country.

First place awards were made for a consumer education leaflet edited by Alice M. Murray; an issue of Science for the Farmer, edited by Franklin P. Ferguson and George A. Van Horn; a

beep telephone radio tape report of the 1959 Pennsylvania Farm Show, produced by Elton B. Tait; and a TV training letter on makeup, produced by William H. Folwell and Herbert F. McFeely.

Second place awards were given to a TV script on safe water supply, by N. H. Wooding; a radio news script by Tait and Miss Murray; a pamphlet on hay drying prepared by J. A. McCurdy, W. J. Kjølgaard, and Edwin H. Rohrbeck.

Tait was named president-elect of the association at the meeting at the University of Florida last week.

Senate Minutes

Annual Report Committee on Calendar and Class Schedule

During the year the Committee considered the following matters in the development of a revised calendar policy:

1. Reviewed information pertinent to the construction of a calendar which would provide for the most useful and efficient operation of the University on a year-round basis;
2. Examined the present and future needs of various University activities such as orientation, registration, examinations, vacations, number of class periods per semester, and the inter-semester period;

3. Considered the year-round utilization of the physical plant for class instruction;

4. Integrated this information into conclusions and considered judgments to serve as the basis of the formulation of principles of calendar construction;

5. Formulated recommendations for a University calendar suited to the times.

The Committee recommended that various changes be made in scheduling with a view toward increasing the educational effectiveness of our present calendar and providing a calendar better suited to the needs of the various University groups. Significant changes of the existing calendar policy approved by the Senate on January 8, 1959 provide that:

1. The University will operate on a year-round calendar of two semesters and summer sessions, with the summer sessions as an integral part of the academic calendar.

2. The academic semester will consist of forty-four class periods for each standard three meeting per week sequence or the equivalent for summer sessions.

3. There will be a study day each semester before final examinations.

4. The Thanksgiving recess will be five days in length.

5. Emergency vacation periods required by weather or other cogent reasons may be declared by the administration.

6. There will be an established policy for noon-hour and evening classes.

Fred M. Coombs, Chairman

Annual Report Rules Committee

1. Concerning the amendment of the By-Laws of the Senate to provide for the establishment of a Senate Committee on Faculty Affairs.

At the Senate meeting on December 4, 1958, Dr. R. W. Brewster proposed that the By-Laws of the Senate be amended to establish a Standing Committee of the Senate on Faculty Affairs. This proposal was referred to the Rules Committee by President Walker. The Rules Committee recommended to the Senate at its meeting on February 5, 1959 that Article II, Sections 1 and 2 be changed to provide for the establishment of this new committee and to define its responsibilities. This motion was passed and the details of the motion are included in the minutes of the meeting of February 5, 1959.

2. Concerning the modification of rule D-1 in the Regulations for Undergraduate Students.

On March 11, 1919, Dr. A. W. VanderMeer suggested to Mr. L. E. Dennis that Rule D-1 be modified to clarify procedures involved in a change of curriculum. Upon inquiring about the procedures that are currently in force it was learned that both the Procedures Committee and the Registrar's Office are studying a revision of the forms to be used and the procedure to be followed when a student wishes to make a change of curriculum. Since these studies were not completed and since a rules revision should follow these studies, no action has been taken.

3. The Long Range Report.

Informal discussions with some members of the Rules Committee have indicated that there are no aspects of the Long Range Report that call for action by the Rules Committee at this time.

Respectfully submitted—J. M. Anderson, R. G. Brewster, S. H. Campbell, E. B. Van Ormer, R. H. Waters, F. T. Hall, Jr., Chairman.

Gift Buys Cattle

A gift of \$5,000 from Leon Falk, Jr., of Pittsburgh, has made possible the purchase by the University of nine head of cattle, including six Jersey cows and three Jersey Herefords from his herd, which is considered one of the best Jersey herds in the country.

Personnel Matters

Dr. Luther H. Harshbarger, professor of religious studies, University chaplain, and coordinator of religious affairs, will be on leave from Aug. 1 to July 31, 1960 to engage in research dealing with theological and political subjects in England and Europe. He will be affiliated with Cambridge University's Trinity Hall.

* * *

Dr. Michael Chiapetta, associate professor of education, has been awarded a Fulbright grant to assist in the development of teacher preparation curriculums in Peru and in studying the operations of the country's public school system. He has been granted a leave of absence for the 1959-60 academic year. Two years ago he spent two months in Mexico participating in a teacher training program.

* * *

Dr. Barnes W. McCormick, Jr., who was at Penn State from 1947 to 1956 as a student and member of the faculty at the Ordnance Research Laboratory, has returned as associate professor of aeronautical engineering, and will divide his time between the Ordnance Research Laboratory and the aeronautical engineering department. Since 1956 he has been successively senior engineer and chief of aerodynamics at the Vertol Aircraft Corp. and head of the department of aeronautical engineering at Wichita University.

UCEA Given Grant For Headquarters

The University Council for Educational Administration, of which Penn State is a member, has received a grant of \$250,000 from the W. K. Kellogg Foundation to establish and maintain headquarter offices at Ohio State.

The 33 colleges and universities which are members of UCEA are combining their efforts to improve pre-service and in-service education for the administrators of the public schools of the nation. The Council is an outgrowth of the Co-operative Program in Educational Administration which, since 1950, has helped more than a hundred universities and colleges improve their programs of preparation for public school superintendents and principals.

Sommer Gets NSF Grant To Attend Congress In Germany

Dr. L. H. Sommer, professor of chemistry, has been awarded a travel grant by the National Science Foundation to make it possible for him to attend the 17th International Congress of Pure and Applied Chemistry, Aug. 30-Sept. 6, in Munich, Germany.

He will present two technical papers, entitled "Optically Active Organosilicon Compounds" and "The Silicon-Hydrogen Bond," and will also serve as chairman of a session on "Compounds with Metal-Carbon Bonds."

Calendar

Friday, July 24

Mateer Playhouse production of "Cat on a Hot Tin Roof," 8:40 p.m., Standing Stone. Mixed swim, Glennland Pool, 8-9:30 p.m.

Saturday, July 25

Mateer Playhouse production of "Cat on a Hot Tin Roof," 8:40 p.m., Standing Stone. Square Dance, HUB ballroom, 9 to 12 p.m.

Sunday, July 26

Chapel Service, 9 a.m., Helen Eakin Eisenhower Chapel. Dr. G. Wayne Glick, Franklin and Marshall College.

University Christian Association Fellowship. Meet at 4 p.m. at Presbyterian Student Center for picnic at Greenwood Furnace.

Concert by Summer Sessions Band, James Dunlop conducting, 5 p.m., in front of Library (Schwab Auditorium in case of rain.)

Summer Artists Series program by Philadelphia Brass Ensemble, 8:30 p.m., on lawn south of HUB (Schwab Auditorium in case of rain.)

Monday, July 27

Student Sing, Schwab Auditorium, 8 p.m. Duplicate bridge, HUB ballroom, 7 p.m. Activity period, Recreation Building, 7:30 to 9:30 p.m.

Tuesday, July 28

Concert by Claremont String Quartet, HUB ballroom, 8:30 p.m.

Chess Club, 7 p.m., HUB ballroom.

Mixed Swim, Glennland Pool, 8-9:30 p.m.

Mateer Playhouse production, 8:40 p.m., Standing Stone.

Wednesday, July 29

Student Music Recital, 7:30 p.m., Barry Brinsmaid in charge, Schwab Auditorium.

Outdoor movie, 9 p.m., on lawn south of HUB (Schwab Auditorium in case of rain). "Battle Hymn."

Mateer Playhouse production of "Cat on a Hot Tin Roof," 8:40 p.m., Standing Stone.

Activity period, Recreation Building, 7:30-9:30 p.m.

Thursday, July 30

Concert by Band - Orchestra - Chorus, W. Paul Campbell conducting, 8:30 p.m., Schwab Auditorium.

Mixed Swim, Glennland Pool, 8-9:30 p.m.

Mateer Playhouse production of "Cat on a Hot Tin Roof," 8:40 p.m., Standing Stone.

Parkin Honored

Ivan E. Parkin, professor of dairy science extension, has been honored as the "outstanding dairy sanitarian of Pennsylvania" and presented with a Certificate of Merit by the Pennsylvania Dairy Sanitarians Association.

It was the second honor granted Parkin this year. Previously he received the "Dairy Ambassador" award of the Dairy Society International for help given to the country of Colombia in setting up an improved dairy program.

Euwema On Travel Leave; Maloney Acting Dean

Dr. Ben Euwema, dean of the College of the Liberal Arts, will spend the next six months traveling through Europe, and has been granted a leave of absence for the purpose.

During his absence, Richard C. Maloney, associate dean of the College, will serve as acting dean.

Patent Granted

A patent has been granted to John E. LeFrancois, associate professor of engineering research at the Ordnance Research Laboratory, for a torpedo casing. The new design, consisting of one-piece tubular housing, enables faster servicing of the torpedo components, eliminates many wiring and plumbing joints, and provides a smoother exterior surface.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Biological Sciences Division Established in Agriculture

EFFECTIVE July 1, a Division of Biological Sciences was created in the College of Agriculture, bringing together the departments of agricultural and biological chemistry, bacteriology, botany and plant pathology, and zoology and entomology.

"The full significance of the move," explains Dr. Lyman E. Jackson, dean of the College, "will probably not be demonstrated for some time, but I feel that the increasing importance of the biological sciences not only to agriculture but to many other fields requires additional recognition of the role they are playing in the University.

"Greater program coordination should also result from the plan and increased communication between the departments and with other departments in the University can be expected."

For some time, at least, the Division will be administered by a committee of the four heads of the affected departments, with one of their number as chairman. Matters of budget and personnel will remain in the hands of the individual departments, but in affairs of instruction related to other areas of the University the Division will act as a unit.

"One of the most important functions in the immediate future," says Dr. Robert W. Stone, head of the department of bacteriology, "will be to coordinate the work of the Commonwealth Campuses.

"It is not practical at all campuses to have separate departments in the biological sciences, so many of the problems peculiar to them will be handled by the Division. But it is our intention not to duplicate the work of the respective departments in any way."

Although traditionally associated with schools or colleges of agriculture, especially in the Land-Grant Colleges, the four areas of the biological sciences have taken on many activities in other areas as well, especially in research.

"For example," says Dr. Stone, "in Home Economics, nutrition and feeding studies have required the use of our faculty; in Engineering, waste disposal

problems have called on our bacteriologists. In psychology, behavior and environment studies are related to physiology."

For many years, of course, students in other fields have taken basic courses in the biological sciences, and, as Dr. Stone points out, they have long needed a central office to turn to for advice in the selection of courses; for example, students who hope to teach the biological sciences or the liberal arts student who wants an "across-the-board" course or sequence of courses.

It is possible, says Dean Jackson, that the existence of the Division will result in increased research funds, from sources not now available, in view of the fact that it will be easy to demonstrate the availability of a great variety of talent in solving problems which cross departmental lines. This, too, can make coordination with other areas of research on the campus much easier.

"One of the basic problems we face," says Dr. Stone, "is the lack of space to carry on research which has been asked of us. The space problem is particularly acute in the fields of physiology, virology, biophysics, and biochemistry. It has been necessary to turn down offers of research grants because of our cramped conditions and we have lost potential faculty members because of the lack of space for research.

"Whether our coordinated efforts as a Division will help in this respect remains to be seen, but at least the organization will provide a focal point to identify both the needs and the program of the biological science departments."

Exhibit On Atoms

A special exhibit titled "Atoms at Work" is on display today in a van-type vehicle located at the west entrance to the Hetzel Union Building, open to all visitors. It will again be on campus on Monday.

The exhibit is locally sponsored by the Institute for High School Teachers of Science and Mathematics and the Elementary Teachers Science Institute and nationally by the National University Extension Association. The Association is carrying out an "Atoms at Work" program in cooperation with the Atomic Energy Commission and the National Science Foundation.

Panels, models, and animated displays of the peacetime applications of atomic energy are featured in the exhibit, which will be open all day except for certain periods set aside for Science Institute participants.

Registration Figures Given

Preliminary figures on registration for the second Six Weeks Session showed a total of 1,138 students on the roles. Final figures will not be available until the registration of groups in August.

The new students bring to 4,027 the number on campus at the present time, and to 7,212 the number enrolled for all sessions to date. Registration for Post-Session will be held on Aug. 10.

Mateer Playhouse Has Diary Of Anne Frank

Peggy Lang, who has been on the professional stage for many years, will play the role of Anne Frank in the next production at Mateer Playhouse, "The Diary of Anne Frank," starting Monday, Aug. 3 and continuing for two weeks.

Ronald Bishop is featured as Anne's father in the play and Esther Benson as Mrs. Frank.

This is the sixth production at Mateer Playhouse, and will be followed by "The Cherry Orchard" and "The Great Big Doorstep."

Penn State Collection.
Pattee Library.



Nearing the date of the cutover to the system of in-dialing for the telephone system, Wilbur Diehl, University's manager of telephones, checks with Western Electric installation foreman William Kamerer on last minute activities at the new telephone building.

Telephone System Nears Cutover Date

DISTRIBUTION of post cards by which faculty and staff members may inform their business associates of their new telephone number will begin Tuesday, Aug. 4.

Sunday, Aug. 16 is the day for the "cutover" which will convert the University's entire system to "in-dialing." From that day on, all incoming calls will go directly to the person being called, rather than through a University operator, with the exception of calls which will require the services of the information operator.

"The success of the cutover," says Wilbur F. Diehl, manager of telephones, "will depend to a great extent on our getting information to those likely to call us. If they know your new number, they will not have to go through the information operator, and will save time and trouble."

"This applies not only to long distance calls but also to local calls."

Calls from one campus phone to another will not require any change in procedure, Diehl explains, except that it will be necessary to dial five digits instead of three or four.

Two types of post cards will be distributed — one for insertion in other mail and one for direct mailing. Previously each department had signified the number of cards required and Diehl says requests were made for 40,000 cards.

On Aug. 10, distribution of the new faculty directory will begin, although the numbers listed should not be used until Aug. 16. As in the past, information in the directory will include not only the campus phone number but also the person's title, department, office

address, home address and home telephone number, and marital status.

"Since there will be another directory in September, listing students as well as faculty and staff, we are printing only 3,500 directories now. For the convenience of those who wish a directory at home, copies will be made available for 50 cents each."

Diehl also points out that directory changes may be made for the September directory as late as Sept. 15. Such changes should be reported on the regular telephone information card.

Distribution of the second directory will begin on Oct. 1.

Band, Chorus Aid At Commencement

Summer Sessions Commencement will be held on Friday, Aug. 7, at 7 p.m., on The Mall, in front of Pattee Library, or in Recreation Building in case of rain.

There will be no procession of faculty members but the deans of the several colleges will meet at 6:45 p.m. in the lobby of Sparks Building and proceed as a group to the Commencement. In case of rain, they will meet under the south balcony of Recreation Building.

Candidates for degrees will go directly to their seats where programs will be available to them. Bleacher seats will be erected on The Mall for a limited number of visitors.

The Summer Sessions Band and the Summer Sessions Chorus will present musical entertainment.

Open House Planned At New Telephone Building

An open house at the Telephone Building, north of Boucke Building, will be held on Sunday, Aug. 23, from 2 to 5 p.m. to give area residents an opportunity to see the new telephone system which will provide in-dialing for over 3200 phones on campus beginning Aug. 16.

University officials and those of the Bell Telephone Company will be on hand at the building to explain the operation of the new system.

Music Events Listed

Music activities for the coming week begin Sunday, Aug. 1 with an organ recital by George Ceiga, University organist, at 7:00 p.m., in Schwab Auditorium. Other events are:

Monday, Aug. 3 — Summer Chorus concert, 8:30 p.m., Schwab Auditorium, with Frank Gullo conducting.

Tuesday, Aug. 4 — Orchestra Concert, 8:30 p.m., in Schwab Auditorium, with Theodore Karhan conducting.

Wednesday, Aug. 5 — Band Concert, on The Mall, 7 p.m. (Schwab, in case of rain), James Dunlop conducting.

Thursday, Aug. 6 — Concert by Claremont String Quartet, 8:30 p.m., HUB Ballroom.

Calendar

Friday, July 31

Claremont String Quartet lecture-recital, HUB assembly room, 8:30 p.m.
Mixed Swim, Glennland pool, 8-9:30 p.m.
Mateer Playhouse production of "Cat on a Hot Tin Roof," 8:40 p.m., Standing Stone.

Saturday, Aug. 1

Square Dance, 9-12 p.m., HUB Ballroom.
Mateer Playhouse production of "Cat on a Hot Tin Roof," 8:40 p.m., Standing Stone.

Sunday, Aug. 2

Organ recital, 7:00 p.m., Schwab Auditorium.

Monday, Aug. 3

Summer Chorus Concert, 8:30 p.m., Schwab Auditorium, with Frank Gullo conducting.
Duplicate bridge, HUB cardroom, 7 p.m.
Activity period, Recreation Building, 7:30-9:30 p.m.
Mateer Playhouse production of "The Diary of Anne Frank," 8:40 p.m., Standing Stone.

Tuesday, Aug. 4

Orchestra concert, 8:30 p.m., Schwab Auditorium, Theodore Karhan conducting.
Chess Club meeting, HUB cardroom, 7 p.m.
Mixed swim, Glennland pool, 8-9:30 p.m.
Mateer Playhouse production of "The Diary of Anne Frank," 8:40 p.m., Standing Stone.

Wednesday, Aug. 5

Summer Band concert, 7:00 p.m., The Mall (Schwab Auditorium in case of rain), James Dunlop conducting.
Mateer Playhouse production of "The Diary of Anne Frank," 8:40 p.m., Standing Stone.
Activity period, Recreation Building, 7:30-9:30 p.m.

Thursday, Aug. 6

Concert by Claremont String Quartet, HUB Ballroom, 8:30 p.m.
Mixed swim, Glennland Pool, 8-9:30 p.m.
Mateer Playhouse production of "The Diary of Anne Frank," 8:40 p.m., Standing Stone.

Friday, Aug. 7

Summer Sessions Commencement, 7 p.m., The Mall, in front of Pattee Library. Summer Sessions Band and Chorus, participating.
Mateer Playhouse production of "The Diary of Anne Frank," 8:40 p.m., Standing Stone.

Senate Minutes

Annual Report Committee on Faculty Affairs

The initial meeting of the Senate Committee on Faculty Affairs convened on April 30, 1959 in 204 Willard with the Chairman, Mr. Gemmell, presiding. A second meeting was held in 114 Burrowes on May 21.

Due to the tender age of the Committee, we have relatively little to report in the way of "actions" taken. A letter concerning Senate representation for Commonwealth Campus faculty was referred to us by President Walker for consideration. The Committee prepared a letter of transmittal to the Senate to expedite this matter.

Letters addressed to the University Administration concerning review of hospitalization benefits and investigation of means of establishing a Faculty Club have been referred to the Committee for consideration. These items are on the Committee agenda for early attention in the Fall when Senate activities resume.

Finally, the Committee has undertaken to prepare a tentative statement of its functions which is included in the minutes.

Respectfully submitted—Martha A. Adams, Jessie Bernard, Richard M. Colwell, Marjorie East, John C. Griffiths, Secretary, Charles M. Long, David R. McClay, Vice Chairman, Leo H. Sommer, George L. Thuering, James Gemmell, Chairman.

Rayback's Book Praised

Dr. Joseph G. Rayback's book, "A History of American Labor," has drawn high praise from Harry J. Carman, former dean of Columbia College, in the current edition of Saturday Review.

The book is one of four in the labor field recommended by Dean Carman.

Dr. Rayback is the head of the department of labor education.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Men's Clothing In Experiment Stage

STYLEWISE and fabricwise, men's clothing has undergone startling changes in a relatively few years and the great experiment is not over.

So say Dr. Ruth W. Ayers, head of the department of clothing and textiles, and Mrs. Lillian B. Larson, assistant professor.

"The clothing industry," says Dr. Ayers, "for many years assumed that men were too fixed in their tastes to want to change styles drastically and so the uniform common at the turn of the century was little changed for business and formal wear.

"On the other hand, I can recall that back in the late 'twenties, my then husband-to-be taught at Bryn Mawr in the summer months in as informal an attire

Dr. Ruth W. Ayers and Mrs. Lillian B. Larson, of the department of clothing and textiles, examine one of the newer fabrics for men's clothing. They point out that both in style and in fabric, men's clothing, and in fact all clothing, are undergoing many changes today in an attempt to give the public what it needs and wants.



as you will find among the faculty at Penn State today. He and his fellow teachers, I remember, were refused admittance to Schrafft's Restaurant because they didn't have jackets."

In the relatively last few years, Dr. Ayres points out, men have demonstrated a liking for more color and greater flexibility in their clothing.

"The unmatched jacket and trousers is as common in business today, even in New York, as the suit," Dr. Ayres says. "The industry has attempted to reverse this trend, but I think it is wrong in not recognizing the great, basic, socio-psychological change taking place in which men are asking for greater individuality in their clothing. They want colors and styles for them-

selves, to fit their own needs and personalities, and not be required to return to the uniform of fifty years ago.

Although synthetic fibers are no longer considered new, research is still directed toward their improvement, toward new fibers, toward the blending of synthetic fibers with natural fibers, and toward new finishes for all fibers.

"Unquestionably," says Mrs. Larson, "men's clothing has benefitted greatly from synthetic fibers, just as has women's, and has resulted in changes in industry's thinking.

"Lightweight clothing, for example, made of wool and Dacron blended, has changed the all-wool market for suits. Men no longer have to have the heavy

clothing of the turn of the century to keep warm at their business and traveling and they have expressed a distinct liking for these newer fabrics on that score."

Causes and results of clothing likes and dislikes is now the subject of considerable research, in the industry and in colleges and universities, says Dr. Ayres. Here, studies have already been completed, in preliminary steps, on the influence of fraternity "fashion leaders" on their brothers in the selection of clothes. A doctoral study is being made in which the University of Georgia is cooperating on the clothing preferences of men students in two widely different curriculums.

(See Next Page)

"The industry is now very much interested in this type of research," says Dr. Ayres, "because it is beginning to realize the importance of the sociological and psychological forces at play which affect their business. No longer say they say that *this* is the style for men and expect the male buyer not to resist if he doesn't like it.

"One trend I have noticed in the clothing business is the attempt to get men to think in terms of changes not only on a seasonal basis but also year-to-year, as women do. I'm not sure they will have much success in this venture."

Both men and women can do with more education in the fabric and clothing fields, Dr. Ayres says, to understand what they are buying and to learn how to treat the clothing once it is theirs. A research study now being done in the department is aimed at learning in what ways women need additional educational help and at simplifying instructions so that they are easily understood.

"We feel that many women do know fabrics pretty well," she adds, "and some of the credit for that can go to home economics teachers and extension people. Also, the fact that women have resisted attempts to restrict them to a single fashion, rather than selecting fashions to fit their own requirements, I think is due in part to this educational effort on the part of home economics teachers and extension workers throughout the nation in their classes, meetings, and articles.

"But this whole field of textiles and clothing is getting more and more complex. It is not simply a choice between a heavy weight wool garment and one that is light weight, or made of cotton or rayon. Today we have so many fabrics to choose from, within the same price range, that it is no wonder the average buyer is confused."

Describing some of the newer fibers and fabrics, Mrs. Larson points out that generalizations about various fibers and what they can do is somewhat difficult without being subject to misinterpretation.

"This is especially true because the whole field is virtually exploding with ideas today. What we say now can very well be incorrect six months from now."

Each Fiber An Advantage

No single fiber today, Mrs. Larson says, does everything better than its competitor. Each fiber on the market has certain advantages and disadvantages, especially when cost is one of the criteria for rating.

"That's one of the reasons for blending fibers in fabrics," she adds, "to take advantage of good characteristics of each of the components.

"For example, a fabric may be made of Orlon and cotton to make use of cotton's absorbency, dyeability, and low static build up and Orlon's light weight, pleat retention and wrinkle resistance, and quick drying qualities."

As a broad generalization, Mrs. Larson says, men's suits made of wool and dacron will customarily contain between 50 and 70 per cent Dacron to take

advantage of the wrinkle resistance of Dacron. If Dacron is blended with rayon 55% or more Dacron is used, and if with cotton, it usually constitutes 65 per cent or more of the fabric.

Information such as this which Mrs. Larson gives in her one-credit course in Clothing Selection will help the men students in the class become better buyers, Dr. Ayres agrees, and more of it is needed, so that the men themselves can buy intelligently.

"We're all a part of this great experiment," Dr. Ayres says, "to make available to the public what it needs. An intelligent-buying public will not only speed the experiment but also make the results more real."

Selection of clothing is not, of course, simply a matter of fabrics. Intelligent buying related to the construction of garments is also important, and it should not be assumed, Dr. Ayres says, that all is known which can be known about construction of clothing with the newer synthetic fibers.

"Otherwise, I believe, the du Pont Company would not have given us a grant this year to do research in the sewing of Nylon, Orlon, Dacron, and various blends, from the standpoint of the home sewer."

Color Comes To Fore

Along with fabrics, color acceptability in men's clothing has undergone great changes in the relatively last few years. The brighter colors taboo even in the 'thirties are now quite common, and combinations are often nearly as striking as in women's clothing in the sports wear field.

"It is difficult to draw a line and say that this belongs in the formal wear category, this in the business line, and this in the sports area," Dr. Ayres says. "Today, much is acceptable in the business outfit which was once considered only appropriate in the sports wear field.

"Unquestionably comfort has helped to make up the man's mind about his selection. Incidentally, a much smaller part of the man's clothing dollar is going into formal wear, but even in this area tradition has been flouted, with the red cummerbund as an example."

Who is the leader in men's wear—the customer or the manufacturer?

"There is no simple answer to this question," says Dr. Ayres, "because industry doesn't really know what men will accept. Not enough research has been done to indicate acceptability.

"For example, why do some companies absolutely require their executives to wear a jacket at all times in the office while other companies take the opposite tack? Is it the whim of the president of the company or are there fundamentally good reasons for these attitudes?

"Only further experimenting will tell us what is acceptable and what will the men reject.

"In the meantime, I think we're getting proportionately more for our clothing dollar than ever before, and we can look forward to even more value for the dollar's worth in the future."

Ferguson Named Director Of Public Administration

Dr. John H. Ferguson, professor of political science, has been named director of the newly organized Institute of Public Administration, effective Sept. 1.

The Institute will operate as a unit of the College of the Liberal Arts to encourage students to enter the field of public administration, cooperate in training programs for in-service employees, to develop and assist with research and public administration, and to offer assistance to public officials.

During the last four years, Dr. Ferguson has been on leave, serving as director of the Bureau of Program Evaluation in the Office of Administration of the Commonwealth and later as Secretary of Administration and Budget Secretary.

A member of the faculty since 1934, Dr. Ferguson served from 1946 to 1948 as head of the department of political science and in 1953 was named director of the Social Science Research Center.

Comedy of Deep South Concludes Mateer Season

An amusing story of a southern family, "The Great Big Doorstep," will replace the originally scheduled play, "Nude with a Violin," at Mateer Playhouse during the week of Aug. 24.

The story concerns the doings of the family when "Ol' Man River" floats an aristocratic doorstep in front of the shanty in which the family lives. The play has been popular comedy fare in summer and community playhouses throughout the country.

Robert D. Reifsnider, associate professor of theatre arts, will serve as managing director at the Playhouse during the last two weeks. "The Cherry Orchard" opens Aug. 17.

Items of Interest

• The Arts

George Pappas, art and art education, exhibiting an oil painting titled "Coast with Rocks" in the Portland Summer Art Festival, Portland, Maine.

Hobson Pittman and Chen Chi, visiting summer art faculty, and G. S. Zoretich, art, exhibiting in the 24th Annual Midyear Show, Butler Institute of American Art, Youngstown, Ohio.

• Articles and Papers

W. M. Lepley, psychology, an article, "Predicating Success in Nurses Training," in The Journal of Psychology.

B. A. Whisler, civil engineering, an article titled "The Present Crisis in Civil Engineering" in the July issue of Civil Engineering magazine.

• Lectures and Talks

J. J. Kaufman, on "Basic Economic Factors and the Nature of the Problem" at the White Collar Workshops at Sarah Lawrence College.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

New Tuition Schedule Set To Meet Increased Costs

A new tuition structure has been adopted by the University, effective Sept. 1, to offset rising costs of operation.

The new schedule also places on equal footing students at University Park and those at Commonwealth Campuses. The latter have been paying higher fees.

Undergraduate students who are residents of Pennsylvania, carrying a full-time schedule of 12 credits or more per semester, will pay a yearly tuition of \$480 at all campuses, and non-Pennsylvanians will pay \$960. Previously the charges were \$350 and \$750, respectively.

Graduate students, residents of the State, who carry 12 credits or more, will also pay \$480 per year. Non-Pennsylvanians will pay \$960. Graduate assistants and fellows will be charged tuition rates equal to those for residents, but will receive a grant-in-aid for the full tuition. Previously, they had paid a \$41 per year health and welfare fee.

Part-time students, taking fewer than 12 credits per semester, also will pay higher fees: \$20 per credit for Pennsylvania residents, \$40 for non-Pennsylvanians, whether graduate or undergraduate. These represent increases of \$5 and \$8 per credit, respectively.

Tuition for Summer Session and Semester will also be increased to \$20 per credit and \$40 per credit, respectively, for residents and non-residents, representing increases of \$4.50 and \$24.50 per credit.

For the most part, the increases will take effect for the Fall Semester. Increases for non-Pennsylvania students at Commonwealth Campuses will become effective July 1, 1960, as will those for Summer Sessions and Summer Semester programs.

Various increases will also be made in miscellaneous programs, such as evening courses and for non-resident students in extension credit courses. Other rates in similar categories will be studied and recommendations made concerning them at a later date.

Grant-In-Aid For Faculty, Dependents

A grant-in-aid plan which will benefit faculty and staff members and their dependents has been adopted, effective with the Fall Semester.

The plan provides that all faculty and staff members and their dependents will be charged the regular University fees for either full-time or part-time schedules, but will receive a grant-in-aid of 75 per cent of the tuition for the course or courses.

If the dependent takes a full schedule of classes, for which he would otherwise be charged the semester tuition of \$240 applied to all other Pennsylvania residents, he actually will pay only \$60.

If the staff member or his dependent schedules fewer than 12 credits per semester, for which there would normally be a tuition of \$20 per credit, he will pay only \$5 per credit.

Class Presents Painting

Members of the Summer Sessions oil painting class taught by Hobson Pittman, purchased the painting "Reflections," by Betty Griggs, of Johnstown, and presented it to the University for the permanent collection. The painting will hang in the suite of offices of the President. The painting received first honorable mention of the lay jury and was a popular choice of visitors to the annual exhibition.

Telephone Switch To Be Made Sunday

On Sunday, Aug. 16, at 7:01 a.m., the campus telephone exchange will be known as "UNiversity" and your office phone, if you are at University Park, will have five digits, preceded by the letters UN.

The new inward-dialing system, the first of its kind in Pennsylvania, will require all callers to the University to dial directly to the number desired, rather than through an operator. Only if the number is unknown will the "information operator" be called.

Result of the new system will be bet-

About The New Directory

The new telephone directory for University Park and the Commonwealth Campuses was made available to offices this week. There should be a copy for each phone.

Since there will be a second directory in about six weeks, containing student telephone numbers as well as those of the faculty and staff, there is presented an excellent opportunity to correct any inaccuracies in the present directory.

Any changes, additions, deletions, and corrections to be made now should reach Wilbur F. Diehl, manager of telephones, by Sept. 15. Please use the official telephone information cards, and please note that cards should be used to indicate whether a name should be removed from the directory.

ter service for outside callers and the new equipment installed over the past few months will mean fewer busy signals for faculty and staff members calling out, since more trunk lines are available.

Beginning Sunday, you must use five digits to call another phone on campus. You must also use the ADams ex-

(Continued on page four)



At the University dump for radioactive materials, Edward S. Kenney, health physicist, and R. Rupert Kountz, professor of sanitary engineering, monitor one of the vaults in which "hot" waste materials from campus laboratories are stored.

Dangerous Waste

Virtually isolated on the University farms, a mile from habitation, is a fenced-in area which to hunters and hikers is an intriguing challenge until they read the sign on the gate:

"Danger — Radioactive Waste."

The sign means exactly what it says, explains Edward S. Kenney, health physicist for the University, in that there is danger and that all you'll find in the area is worthless trivia — waste paper, glass, etc., which have been exposed to radiation and are being stored until such time that they can be safely disposed of elsewhere.

The dump, for that's what it is, was established several years ago to provide a safe means of holding these radio-active materials until they are no longer contaminated. For most of these materials, the storage life will be five years, but all the waste will be tested before any attempt is made to dispose of it to make certain it is no longer dangerous.

"To persons outside the fenced area there is no danger whatsoever," Kenney explains, "and in fact you could lean against the fence and not receive any radiation. But once inside, you are in danger of being exposed to enough radioactivity to make you extremely ill, as if you had a contagious disease."

"For that reason I am the only person authorized to go inside the dump, because I use a radiation meter and film badge to give me a warning."

"Any person wandering into the area

without proper safety precautions would have no way of knowing whether he had been exposed to harmful radiation unless he had a medical examination."

There have been signs of minor vandalism in the area in the last year, Kenney says, and probably the persons responsible did not fully realize their potential danger.

Kenney's job includes the personal supervision of the disposal of all radioactive materials. If chemicals, laboratory tools, or any other disposable wastes are radioactive, Kenney sees safety equipment may handle the containers which are stored in concrete vaults at the dump. Only Kenney opens the vaults and inserts the containers, although other personnel with proper safety equipment, may handle the containers before reaching the area. Kenney limits himself to a very short exposure inside the dump.

There is absolutely no danger to people in the general area, through water supplies or through the air, says R. Rupert Kountz, professor of sanitary engineering, who designed the facility.

"Under no circumstances could the radiation leak out through the steel and concrete walls to contaminate the ground."

Within the next year, Kountz says, an incinerator will be built to burn combustible materials, but even the ash remaining will be stored in the vaults. The purpose of the incinerator is sim-

ply to reduce the bulk of the material, and has no effect on the radiation which must be allowed to "decay" through time.

"This incinerator will have a special method of retaining the gaseous products of the combustion to prevent the contaminants from spreading over the countryside," Kountz explains.

A number of laboratories on campus, including the Research Reactor, regularly send waste materials to the dump, identified and dated so that in the future a record will be available to indicate which containers may be removed and disposed of.

Progress Noted In Construction

A summary of construction in progress and soon to be initiated has been given as follows by the director of planning and construction and by the Trustees:

Residence Halls — at former grass plots at intersection of Curtin Rd. and Entrance Rd. Work to begin this month for \$7 million project, to include three buildings of eight floors, one unit of five floors, and dining hall building of two floors. To house 1,046 students and be ready for Fall, 1961.

Men's Residence Halls — at Park Ave. and Shortlidge Rd. About 98 per cent complete. Will be ready for Fall Semester.

Pollock Circle Residence Halls — on most advanced buildings, roof slabs have been poured, and on one unit, exterior brick and stone work is nearly completed. To house 2,000 students, will open in Fall, 1960.

Housing Units — for married graduate students. Foundation walls completed on two units and footers for ten others have been poured.

Football Field — Steelwork in progress.

Ice Rink — Placing of structural steel for roof has begun.

Research Center — First unit is occupied and structural steel erected on two other units.

Petroleum Refining Laboratory — nearing completion, expected to be completed by November.

Sackett Building — North wing nearing completion, which is also expected in November.

Special Education Building — Architects working on final revisions of plans, with construction expected to be started later in the summer.

Hammond Building — will be completed early next summer.

Home Economics — scheduled for completion in April.

Wagner Building — Some interior partitions completed; will be completed in April.

Agricultural Structures — Turkey brooder and breeder houses completed; swine research center nearing completion, and the Meats Laboratory expected to be finished Sept. 1.



A. O. Rasmussen, left, specialist in ornamental horticulture, and Dr. John C. Harper, expert in lawns and other turfs, both of the Agricultural Extension Service, urge homeowners to make use of the soil testing service to get better shrubs and lawns.

Soil Test

HOMEOWNERS anxious to obtain and maintain a well-landscaped home site would do well to pay a modest fee of \$1.00 to have a test made of the soil on their lot.

Dr. John C. Harper and A. O. Rasmussen, of the Agricultural Extension Service, whose experiences in the field give ample proof of the value of soil testing, recommend this approach strongly.

"You waste money, effort, and time, and often don't get a good job anyhow, without a soil test," says Dr. Harper, who as associate professor of agronomy extension is a specialist in turf grasses.

The lawn, often the most costly part of the landscaping project, is also unfortunately subject to many stresses and strains from weeds, drought, excess water, physical damage, and competition from trees and shrubs. Consequently, says Harper, to give the desirable grasses a chance, good soil fertility is a must.

"And you can't know whether your lawn is receiving the correct treatment unless the soil is analyzed and certain questions answered about it," Harper adds.

By all means, advises Harper, follow the manufacturer's recommendations on the rate of applying fertilizers, unless you have word from the soils experts that some other practice should be followed. But simply putting "enough" fertilizer on your lawn each spring because that's what your neighbor does and he has a good lawn may not be advisable at all for your lawn, and it may be much more expensive than it needs to be.

"It's entirely possible for two lots side-by-side to have different soil characteristics and therefore require different fertilizer and lime treatments," Harper points out. "For example, how much top soil do you have, compared to your neighbor? Nine out of ten lawns are

built on hauled-in fill and topsoil. You may be suffering from a lack of enough good soil in which to grow grass, which customarily sends its roots down 5-6 inches if it has a chance.

"If your lawn is sitting on top of rock, you must expect to provide more fertilizer to help establish a very thick root system to carry over the periods in the summer when you will get little rain. Even then, drouth may take its toll, weeds come in, and your lawn will be ruined. Sometimes, frankly, no amount of fertilizer will do the job and the only advice we can give you is to get more top soil onto the lot or resign yourself to the fact that you can't have a good lawn."

Soil tests performed at the University by the Extension Service (see instructions elsewhere on this page for obtaining soil tests) determine the soil requirements in the way of fertilizer and lime, and the specialists who analyze the soil also sometimes make recommendations on other treatments, from the answers to questions supplied with the soil test kit.

Tests for fertilizer requirements determine the level of organic matter, phosphorus, and potash (the P and K of commercial fertilizers) in the soil and from this can be calculated the requirements to maintain fertility for various uses — lawn, shrubs, vegetables, trees. The liming test also determines the acidity or alkalinity of the soil and whether lime is necessary.

"In some areas of Pennsylvania," says Harper, "little if any potash deficiency occurs in the soil, but to make a blanket statement that potash would not be needed would be foolish. Some very serious disease problems arise if the proper soil fertility balance is not maintained.

"While we tend to emphasize nitrogen requirements for lawns, we can't overlook other nutrients, and you can't

HOW TO GET A SOIL TEST

SPECIAL provisions have been made by the Agricultural Extension Service for faculty and staff members who wish to have a soil test made, as is recommended in the story on this page.

Any faculty or staff member may get a soil test kit for \$1.00, at the Agriculture Mailing Room, in the basement of Armsby Building. The kit information describes how the soil sample should be taken, and a form accompanies the kit asking specific questions which will be of help to the agricultural specialist who will attempt to analyze your soil problems.

When the soil sample has been taken, the kit should be mailed or taken to the Soil Testing Laboratory on the third floor of Armsby Building.

A complete report of the test will be mailed to the homeowner, and a copy will be sent to the Centre County agent in Bellefonte. Any further questions will be answered by him.

Under usual circumstances, soil test kits could be obtained only from the county agent, and this procedure still applies to anyone but faculty or staff members.

tell by looking at soil what nutrients it needs. Only a soil test will give you the information."

Generally the home owner who becomes interested in maintaining a good lawn emphasizes two things — fertilizers and weed killers. Although there are periods when the best maintained lawn may show weed infestation, the most effective means of beating weeds, says Harper, is by keeping the grass as healthy as possible.

"If the recommendations of the fertilizer manufacturer are followed closely, you will have a reasonably good fertilizer program," Harper points out, "but unfortunately many people don't do this. If the instructions on the bag say to apply fertilizer at the rate of 40 lbs. per 1000 square feet, you must obviously know how many square feet of lawn to be covered. Only accurate measurement will tell you this.

"One of the more serious problems we find is that although people buy the right amount of fertilizer for the area they have, they do not apply it uniformly, getting too much on some areas and not enough on others. Fertilizer burn results where too much has been applied, and of course poor growth in the areas of deficiency.

"Here is an important point to remember: If a little fertilizer is good, a whole lot is not necessarily better. It is possible to make the growth too succulent and subject to diseases. I must admit that we don't find this condition too often in home lawns but it does happen in the mistaken belief that all you need to solve your lawn problems is to put on a lot of fertilizer.

"Nothing could be further from the

truth, because lawn problems are very complex. Insects and grubs, drouth, excess moisture, shade, trees, weeds, poor soil structure, diseases, poor cutting program—all these factors and many more can contribute to trouble.

"The point is this: you won't have a good lawn simply by dumping a lot of fertilizer on it. On the other hand, you won't have a good lawn without a good fertilizer program."

Shrubs, Flowers, and Trees

A. O. Rasmussen, extension ornamental horticulture specialist, has been advising homeowners as well as commercial people for 30 years for Penn State, and while he agrees that there is much good landscaping, especially in and around State College, he believes that more homeowners should pay attention to their soils.

"It is my contention," he says, "that 90 per cent of the job of having good ornamentals comes at the beginning—preparing a good soil bed, selecting good stock, and taking care of the plants for a certain period after they are set in. The other 10 per cent comes during the lifetime of the plant, by spraying, weeding, mulching, etc.

"Some plants require an acid soil, others a neutral or alkaline soil. Once every two or three years the homeowner should have a soil test made, or at least a lime test. All you have to do is go to the county agent's office for the lime test and there is no charge for this service, but it can be a mighty important test for your shrubs.

"But one thing you shouldn't do, when you're planting or transplanting shrubs, is to use commercial fertilizer. Fertilization practices should be followed while the plant is growing."

Soil acidity, says Rasmussen, is of considerable importance to shrubs and flower beds but it is almost always possible to solve an acidity or alkalinity problem. If evergreens are to be planted, requiring a soil acidity of 5.5 to 6.0, and the soil test shows 6.5 to 7.0, application of some aluminum sulphate is indicated.

"On the other hand, if your soil is too acid for certain types of plants, then ground limestone can be added," says Rasmussen.

"But you must be careful that shrubs side by side will be compatible; if one needs an acid soil and the other doesn't, you may be in for trouble. Your only solution in some cases will be to move one of the plants to another part of the yard."

Compatibility of shrubs is important from more than just the soil acidity standpoint, Rasmussen points out. One may shade another which needs sun, or crowd out another plant with long roots which take the nutrients and water out of the soil, leaving none for other plants nearby.

A regular fertilizer program is recommended by Rasmussen for perennial shrubs and flowers, with an application of 5-10-5 or similar analysis commercial fertilizer every spring after the first year. A second application may also be desirable in late summer.

"Certainly one problem in home areas is that of soil structure, and too many amateur gardeners fail to understand the importance of this. Our soil tests tell us something of the structure and we often make recommendations to get more organic matter in the soil and take other steps to improve the condition of the soil."

Rasmussen and his co-workers receive the results of about 500-700 soil tests a year, many from commercial growers, to pass along recommendations. Questionnaires accompanying the soil sample are intended to give some clue to the problems facing the gardener, but too often, Rasmussen says, the client isn't as complete in his information as he should be and a certain amount of "educated guesswork" is necessary.

"I want to put in a plug for the county agent, too," says Rasmussen, "for he's the fellow on the firing line and he can help tremendously. Most city folks think the county agent is available only for the farmer, but he isn't, and he can help many homeowners with only a small lot."

Both Harper and Rasmussen emphasize that more than a soil test and fertilizer program are need for good lawns and gardens, but both point out that without good soil conditions, you can't grow grass or flowers and shrubs.

Rasmussen summed it up by comparing the landscape with the building itself; the house is only as good as its foundation. Unfortunately, he says, in many cases we don't really know what the foundation is because the whole area was covered up when the owner got there.

"If you're having trouble which can't be explained away by any other factor, you can start looking for poor subsurface conditions," he says, "and generally you'll find that the plant is sitting on a rock, the contractor's excess plaster, or the junk that was thrown into your lot before you built."

"You can't expect anything to grow with a foundation like that."

Items of Interest

• Elected or Appointed

F. J. Doan, dairy manufacturing, elected to the board of directors, American Dairy Science Association, for a three-year term.

• Honors

Distinguished service awards to county agents A. S. Frommeyer, Harrisburg, A. E. Ifft, Stroudsburg, R. M. Smith, Tionesta, and C. H. Waha, Mercer, by the National Association of County Agricultural Agents.

• Articles and Papers

G. W. Bierly, Wilkes-Barre Center, a special report titled "General Motors' Utilization of Engineering Personnel," at the General Motors Conference for Science and Engineering Educators, at Detroit.

Calendar

Monday, Aug. 17 — Mateer Playhouse production of "The Cherry Orchard," 8:40 p.m., Standing Stone. Continues all week.

Wednesday, Aug. 19 — Dance sponsored by Annual Health Conference, open to Summer Session students and faculty, 9 p.m., no admission charge.

Thursday, Aug. 20 — Outdoor movie, "The Lady Takes a Flyer," with Lana Turner and Jeff Chandler, 9 p.m., lawn south of HUB (Schwab Auditorium in case of rain.)

Saturday, Aug. 22 — Sixth Annual Folk Dance Festival, 7:30 p.m., demonstration, and 8:00 p.m., dancing, HUB ballroom, open to Summer Session students and faculty.

Monday, Aug. 24 — Mateer Playhouse production of "The Great Big Doorstep," 8:40 p.m., Standing Stone.

Friday, Aug. 28 — Summer Sessions end at 6:20 p.m.

Senate Minutes

ANNUAL REPORT OF SENATE COMMITTEE ON ADMISSIONS

The year was a fairly uneventful one for the Senate Committee on Admissions, with these items recorded:

February 28 — Entrance requirements approved for new curriculum of Food Retailing and Distribution (Agriculture and Business Administration).

March 14 — Statement of long-range admission policy approved. Requirement of tests for first-fifth students not favored. Committee prepared to receive exceptional requests for advanced standing transfers which are in conflict with Senate Regulation E-3.

April 17 — Substitution approved of College Entrance Examination Board tests for our Penn State tests. The Senate in April 1955 had authorized a shift to CEEB examinations when the time seemed appropriate.

June 17 — Entrance requirements approved for new associate degree program in Business Administration.

Present admission policies of the University are summarized in the *Faculty Bulletin* issues for November 14 and November 21, 1958.

David H. McKinley
Chairman

Telephone —

(Continued from page one)

change letters when calling to State College and surrounding area phones.

Also, all calls made to the campus must use the UN letters and the five digits of the number desired; you will get no signal if you fail to dial the entire number.

Your office should have one phone book, newly printed, for each phone. If not, call the manager of telephones, Wilbur F. Diehl, UN 5-5411. This directory will be in use for approximately one month, or until the completely new directory, which includes student numbers, will be available.

Additional telephone directories may be obtained at bookstores downtown or at the main desk in the Hetzel Union Building, at 50 cents each. Copies to be mailed by the manager of telephones, W. F. Diehl, will be an additional 50 cents for postage and handling.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Communism's Goal Unchanged: Domination Of World—Chisman

AMERICANS should be constantly reminded that Communism's goal still is, as it always has been, domination of the world, says Henry H. Chisman, associate professor of forestry, who recently was given additional reason for thought on the subject of world affairs.

The occasion was a two-week seminar at The National War College titled "National Strategy Seminar for Reserve Officers" and attended by some 200 reserve officers of the various services specially selected from all parts of the country. Included were college presidents, judges, governors, members of Congress, industrial and commercial leaders, bankers, and many others.

One of the basic purposes of the Seminar, Chisman explains, was to provide key individuals with the facts about Communism, to put it in its proper perspective, as revealed not only from its public acts, but also from the behind-the-scenes maneuvers for power.

"We were given this information," he adds, "specifically to take to the public in open meetings, through writing, or radio and television broadcasts. In other words, we are to be stronger and more enlightened spokesmen for our form of government."

Communism, Chisman learned, will fight its battle on three fronts: military, economic, and psychological. It will fight on the military front, however, only if there is no reasonable doubt about winning.

"But Communism will fight to the end on economic and psychological grounds," he says, "and has said so."

"Nothing has changed in the past few years to make us believe their goal has changed: ultimate control of the world. In fact, Khrushchev has said that they will 'bury us'."

Chisman, who is commanding officer of the State College Naval Reserve Research Unit, was one of five from Pennsylvania selected for the Seminar, which was authorized by the Joint

Chiefs of Staff and sponsored by the Institute for American Strategy and the Reserve Officers Association of the U. S.

The faculty of the Seminar included not only officers of the War College but such eminent men as the former Secretary of State, Dean Acheson; Paul H. Douglas, U.S. Senator from Illinois; Allen W. Dulles, director, Central Intelligence Agency; Dr. William V. Elliott, professor of government, Harvard University, and many others.

The curriculum of the Seminar covered such topics as Understanding the World Situation, Misconceptions Regarding Communism, Communist Strategy; History and Method, The USSR and its Satellites.

In the morning discussion groups of ten men each argued and debated over the materials presented in lectures. No statement was accepted without close scrutiny, regardless of the stature of the lecturer. Some sessions were open to members of Congress, a number of whom attended.

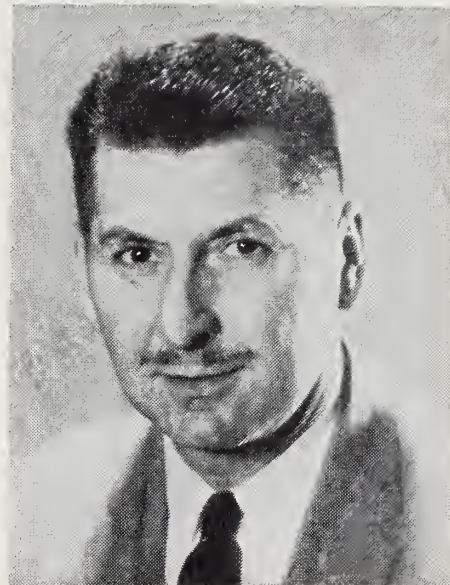
"We studied the history of Communism, from Marx to Khrushchev," Chisman says, "to try to discover why people accepted it."

Communism, Chisman states, appeals to many people, even prominent ones, because the person can identify himself with a group in this manner when he couldn't otherwise; he has a sense of belonging. The breakdown of the family and religious life of any country contributes to the goals of Communism.

The lecturers put the lie to propaganda claims of the Communists that their system is so much more effective in getting things done.

"Certainly," Chisman says, "they have accomplished much in the last half-century, but so did the United States in its early years and without a model to copy from."

"In those areas where Russia has



HENRY H. CHISMAN
Russia Plans For Future

equaled the free world, further progress will be as tough for the Communists as for us."

Communism will wage a continuing conflict, as a cold war if need be, for as long as is necessary to achieve the goal of world domination, Chisman says.

"But their method of fighting differs from ours. While we make some effort in all major ways, the Russians coordinate their psychological-economic-military techniques very well. Russia is at the 'brink of war' all the time but it won't take a calculated risk if it would lead to a war."

"Russia's policies are dedicated to the future; they plan for always. We haven't developed a philosophy of continuing warfare."

One of the more immediate aims of the Communists, Chisman learned, was the destruction of NATO, which is considered a serious threat to Communist expansion.

"The peace offensive now underway," Chisman says, "has this as a goal."

It is important for Americans to know that Communists rule Russia with a total party membership of only 7½ mil-

lion people, it was pointed out. Many of their technological and scientific developments are made by non-Communists.

"We learned, too," says Chisman, "that the Communists don't count cost when they want something. Labor can be used for the state in any way desired."

"That's one reason their 'lead' time on technological developments — the time from conception to actual use — is only 5½ years, compared to 8 years for us."

The visit of Khrushchev to this country is another engagement in the conflict of Communism against the Free World, Chisman says, in that it is a breathing spell for Russia to work for its next goal.

"We must remind ourselves once again that peace may be in force in a military sense but in the psychological-political area war still goes on," Chisman points out.

Mr. Average Citizen can do a great deal in the cold war, Chisman maintains, by developing a stronger attitude toward those things which make America strong, including the taxes to make our programs work.

"Our defense budget will have to get bigger or we will face the threat of nuclear blackmail," Chisman argues.

"I believe that each of us can also help by reviving his faith in the home and religion, because our greatest strength lies in the family."

"Nor should we become hysterical about progress in Russia. Realize that we too have made and are making tremendous strides and that no country has a complete monopoly on progress."

"As a nation, we should maintain our foreign aid as well as our own military and non-military strength."

"And finally we can all learn a little more about democracy so that we are at least as well informed as the Russians are about Communism."

118 Per Cent Increase In Tuition In Ten Years

A comparison of tuition rates at Penn State over the past decade reveals that students this fall will pay on the average 118 per cent above the rate paid ten years ago and that in five years the tuition has nearly doubled.

The startling truth of the rising costs of education is shown in the following table, which lists the tuition rates for resident undergraduate students only. Rates for non-resident students have increased at an even faster pace.

Year	Year's Tuition	Amount Increased	Per Cent Increased
50-51	\$220	—	—
51-52	220	—	—
52-53	220	—	—
53-54	252	\$ 32	14.5
54-55	252	32	14.5
55-56	252	32	14.5
56-57	280	60	27.2
57-58	350	130	59.0
58-59	350	130	59.0
59-60	480	260	118.2

Personnel Matters

Dr. Kenneth R. Beittel, associate professor of art education, will do creative pottery work and write several articles on art education during a semester's leave of absence beginning Sept. 1.

James E. Suiter, instructor in English at the Pottsville Center, will travel in England and France to do research on A. C. Swinburne and the Pre-Raphaelite poets, preparatory to writing a book, while on a one-semester leave this Fall.

Dr. Alida S. Hotchkiss, associate professor of home management and family economics, has resigned to devote full time to her home and family in Meadville. She joined the faculty in 1957.

Dr. Ruth W. Ayres, head of the department of clothing and textiles, will spend five months in Pakistan studying changes made in the textile industry there during a leave of absence beginning Feb. 1. She will be based at Karachi, where her husband serves as a member of the Harvard University advisory group on the Five-Year Economic Plan in Pakistan.

Dr. Richard G. Stoner, associate professor of physics, has been named acting head of the department of physics during the absence of Dr. J. A. Sauer, who will be on leave for a year at Oxford University.

Harold E. Stewart, who was associate county agricultural agent, has been named county agricultural agent for Dauphin County.

Bette L. Goddard, extension home economist for Butler County, has been named associate professor of home economics extension and assistant State home economics leader.

Leroy F. Austin, who was dean of students at Pratt Institute in Brooklyn has been named associate dean of men. A graduate of the University of Tulsa, with a master's degree from the University of Michigan, he has received the doctor of education degree from Columbia University.

Dr. Philip S. Klein, professor of American history, will begin a six-months leave of absence on Sept. 1. He plans to complete his biography of James Buchanan.

Dr. Robert W. Stone, head of the bacteriology department, has been named chairman of the new division of Biological Sciences in the College of Agriculture.

Yar G. Chomicky, associate professor of art education, plans to paint and do creative work while beginning work on a textbook in basic sculpturing during a five-month leave of absence starting Feb. 1.

Mortimer I. Kay and **Frederick M. Lovell**, research associates in physics, have resigned to return to their home countries, Kay to Norway and Lovell to Wales.

Rabbi Benjamin Kahn, lecturer in Hebrew and director of the B'nai B'rith Hillel Foundation at Penn State since 1940, has resigned to accept a position as National Hillel Director, directing the operations of 225 Hillel Foundations and Counselorships at Colleges and Universities in the United States, Canada, Great Britain, Holland, and Israel.

Shigakazu Udagawa, research associate in ceramics, resigned effective Aug. 31, to join the department of ceramics at the Tokyo Institute of Technology, in Japan.

Harold L. Ergott, Jr., research associate in electrical engineering, has resigned to accept a position with the International Business Machine Corp. at Ithaca, N.Y.

Robert R. Ernsi, research associate in civil engineering, has resigned to accept a position with Wilmon Castel Inc., of Rochester, N.Y.

Enrollment Figures

Final figures for Summer Sessions enrollment reveal that a total of 8,489 students attended one of the five sessions offered this year.

Included in the total were 2,669 in attendance for the two Six-Weeks Sessions, and 5,820 for the three Summer Sessions.

As in the past, graduate students outnumbered undergraduates. A total of 4,780 graduate students were enrolled, 2,725 undergraduates, and 984 unclassified.

Last year a total of 8,807 students attended Summer Sessions.

The complete summary for 1959 is as follows:

	Men	Women	Total
Inter-session			
Graduate	815	280	1095
Undergraduate	287	114	401
Unclassified	74	195	269
Total	1176	589	1765
Mid-Session			
Graduate	1417	831	2248
Undergraduate	204	111	315
Unclassified	165	264	449
Total	1786	1206	2992
Post-Session			
Graduate	544	172	716
Undergraduate	211	47	258
Unclassified	41	48	89
Total	796	267	1063
First 6-Weeks			
Graduate	352	21	373
Undergraduate	778	160	938
Unclassified	64	47	111
Total	1194	228	1422
Second 6-Weeks			
Graduate	332	16	348
Undergraduate	708	105	813
Unclassified	54	32	86
Total	1094	153	1247
Grand Total	6046	2443	8489

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Carpenter Makes Six-Week Study of Howler Monkeys

WHY howler monkeys of Barro Colorado Island in the Panama Canal Zone do their roaring in the morning may be very well known to them, but the outsider looking in surmises simply that the "man of the household" must roar to keep his large family under control.

"At other times," says Dr. C. R. Carpenter, professor of psychology and director of the division of academic research and services, "these monkeys emit whines, clucks, and many other sounds.

"Early in the morning, though, in volume the sound is like the bellow of a cow."

Back after six weeks on the island with a party of six observers who ventured to study the monkeys in their natural habitat, Dr. Carpenter is currently evaluating the data accumulated in a project sponsored by the National Science Foundation in co-operation with the Smithsonian Institute's Biological Area in the Canal Zone.



DR. CARPENTER

For Carpenter, the trip was a return visit to this unusual island, which was formed 50 years ago when the Chagres River was dammed to make Gatun Lake in the Canal Zone. The animal and plant life trapped on the island has been protected and undisturbed, with changes occurring only through natural processes. It's a paradise for scientists of many stripes, including life scientists interested in evolution and the processes which regulate populations, human and subhuman.

Dr. Carpenter made studies of primate family organizations as early as 1932. On the basis of three censuses, he formed a hypothesis that each species of primate has a group makeup peculiar to itself. In the howler monkey, he hypothesized that the organization would consist of 3 males, 7 females, 4 juveniles, and 3 infants.

In 1951, two biologists then at the University of Wisconsin made a census of the island's howler population. This census showed not only a great reduction in the total howler population but also a radical change in the group's composition. Many groups had only a single adult male. The supposition is that a yellow fever epidemic swept through the howler monkeys.

"This time," Dr. Carpenter says, "our party consisted of two Penn State undergraduate students, a graduate student from the University of California, my son Lane, Dr. William A. Mason, of the University of Wisconsin, and Dr. Charles Southwick, who was one of the two men who made the 1951 study."

A total of 47 days was spent on the census, and 45 groups of monkeys were surveyed on the island, which is about 6½ square miles in area. The project took the party to every part of the island, usually on trails, but also through jungle vegetation.

"Near the site of the station, which is operated by the Smithsonian Institute," Dr. Carpenter explains, "the groups were rather undisturbed by our presence, but in other parts of the island, where they rarely if ever see humans, the monkeys were extremely excited when we approached them."

Although relatively phlegmatic animals, howler monkeys maintain territorial rights for their own group. A group averages about 18 monkeys. If another group moves in, especially to the feeding area, there is sometimes a roaring match. Usually the defensive group wins the match, and the offenders back off toward the center of their own territory.



Barro Colorado Island in the Panama Canal Zone was scene of Dr. C. R. Carpenter's study of howler monkeys. The buildings are maintained by the Smithsonian Institute for purposes of scientific study of the island's flora and fauna.

"During the time the two groups are roaring at each other," Dr. Carpenter relates, "there is some intermingling, especially of the females and the young ones, but when the contest is over, and the dominant males of the group give the signals to retreat, all of the animals follow them."

The scientists' day started at 5:30 a.m. on Barro Colorado Island when they located groups of monkeys by their morning roars, which sometimes could be heard for a thousand yards, even in the dense jungle. The party usually was split into two teams, with two other persons serving as liaison. The objective each day was to take a census of each group heard or otherwise located. In addition, Dr. Carpenter shot one mile of movie film, and got some excellent motion picture records. However, he says, tree top photography in the jungle is extremely difficult.

"We were fortunate to get one entire group jumping across the tops of trees and included every individual in the



group," he reports. "Another time we photographed a group dropping down from the limb of one tree to the top of another, a drop of about 15 feet, and again we got a record of all the animals in the group."

One of the advantages of these motion picture films, Dr. Carpenter points out, is that it will make it possible to verify the visual census made on the spot, and especially to correlate the estimated sizes of the animals with scaled photographic recordings.

"With our powerful (7 x 50) binoculars, from a distance of 30 yards or so," he points out, "we could be reasonably certain of our classifications of the animals as males, females, juveniles, and infants but the films will verify this for us."

Usually the day's operation ended about 6 p.m. after exhausting hours in the forests. Although this was the rainy season, the party was unusually lucky in being there during one of the drier years. Consequently, the tropical storms and heavy rains which did occur did not seriously delay the work.

"Nor were we hampered in any way by wild animals, snakes, or the like," says Dr. Carpenter. "In fact, the worst hazard we faced was falling trees, which came crashing to earth with so little warning that you would have been lucky to get out of the way had you been directly beneath it. Insects were a nuisance and put one of the men out of action for a week."

From this standpoint, Dr. Carpenter considers the experience somewhat uneventful, but scientifically he felt that the six weeks produced more than he hoped for.

"For one thing, a preliminary scrutiny of the data confirms the hypothesis regarding the norm of the family organization of the howler monkey," he says. "It would appear this time that the group is made up of 3 males, 9 females, 3.5 juveniles, and 3.6 infants, pretty close to the earlier organization we found and the predicted composition."

Although Dr. Carpenter and Dr. Southwick were the only members of the party experienced in this type of work, the others accustomed themselves very well. One of the secrets of this type of work is familiarity with the habitats of the animals. The odors, sounds, food habits, etc., all contribute to recognition of the animals and success in locating and analyzing groups.

"The howler monkeys stay in the trees, usually moving only to go to another food tree or to another sleeping area at night," Dr. Carpenter notes. "Within their own domain, they find everything they need to sustain life, so that we could be pretty certain that any group we took a census of would not be duplicated on other consecutive days. We aren't certain that we found all the groups, but we're certain we didn't miss many."

In the 25 years since he studied the monkeys previously, Dr. Carpenter found that the total population has nearly doubled and about quadrupled over the 1951 census. Still, the island is better able to support the monkeys than it was in the 1930s.

"Disease and parasites appear to be at present the main limiting factors in the population," Dr. Carpenter points out. "Perhaps the time will come when food supplies will be a limiting factor, just as it is among other animals and humans in some areas."

"We don't know much about the effect of stress resulting from population pressures, but this may well be one of the control mechanisms and we have data bearing on this question."

Although the sounds emitted by individual howler monkeys are the same — a whine or bark when disturbed, a cluck when the signal is given for the group to move — the quality of the sounds might vary from individual to individual. Nevertheless, this system of communication serves satisfactorily to regulate, order, and coordinate their social behavior.

In the primates like the Rhesus monkey, there is strong dominance of males over each other and of males over females. The howler monkeys do not have this same pattern, but certain males are dominant under some circumstances and exercise different degrees of control over groups. The females rear the young and the males defend and lead the group.

One difference noted among the groups was that the monkeys nearest the station were less aggressive and more tolerant of other groups. This tolerance may well be built up by frequent contacts.

"In other words," Dr. Carpenter conjectures, "it would appear that isolation of groups makes them intolerant of other groups of the same species."

"That's not too much unlike human behavior."

◀Three inhabitants of Barro Colorado Island seem relatively undisturbed at having their picture taken by Dr. Carpenter's party. Motion and still pictures supplement the visual data taken by the team which invaded the island for six weeks to make a census of the monkeys, in a study supported by the National Science Foundation. Dr. Carpenter's party traveled through thick jungle vegetation to find the groups of monkeys scattered over the island.

AAUP Symposium Set

A symposium on the theme, "The Mission of a State University," will replace the annual Faculty-Trustee dinner sponsored by the local chapter of the American Association of University Professors, on Oct. 1.

Dr. Russell T. Thackrey, executive secretary of the American Association of Land Grant Colleges and Universities, will be keynote speaker of the symposium, which has been arranged by an AAUP committee headed by Dr. Roy C. Buck and Mrs. Harriett Nesbitt.

Tickets priced at \$3.50 each, are now in the hands of the separate College chairmen. They entitle the holder to attend the main session at 3:30 p.m., one of the nine discussion groups, a pre-dinner open house, and a dinner in the HUB ballroom.

Faculty members and their wives are urged to attend, including those of the several campuses and centers.

Leslie P. Greenhill is chairman of the ticket committee, which includes: Merwin Humphrey, Franklin H. Cook, Lyman C. Hunt, John B. Nesbitt, Mary L. Dodds, H. J. O'Brien, John J. Schanz, Ralph R. Ricker, Philip S. Skell, Rose M. Cologne, William H. Folwell, Elsa Lisle, Lt. Col. Robert Hayes, Julia Brill, Merle Campbell, and Harold Dickson.

Senate Meeting Sept. 24

The first regular meeting of the University Senate for 1959-1960 will be on Thursday, September 24, 1959 in Room 121 Sparks Building. The agenda will be distributed on September 10, 1959. Please note change of date.

Centre House Dedication Scheduled For Sept. 23

Ceremonies in connection with the conferring of names on the North Halls living units will be initiated on Sept. 23, when Centre County will be recognized.

Eventually, all of the Commonwealth's 67 counties will give their names to residence halls units. Sixteen units will be formally dedicated between Sept. 23 and Oct. 29.

County Commissioners O. P. McCord, G. H. McCormick, and Mrs. Marian Davison have prepared a guest list for the Centre County ceremony representing a cross section of the community life of the county.

The ceremony will be held in the study-lounge of Centre House, which is one of four living units in Holmes Hall.

Faculty Bulletin



THE PENNSYLVANIA
STATE UNIVERSITY
UNIVERSITY PARK, PA.

Published weekly during the University year to make official announcements and present items of interest to the faculty and staff. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Venezuela Study In Contrasts; Reduction In Illiteracy Needed

VENEZUELA, like many other Latin American countries, must learn to crawl before it can walk or run to a higher standard of living and working, says Dr. Richard N. Jorgensen, assistant professor of wood technology.

Back after 21 months in the country, serving as chief of the wood technology section of the Latin-American Forestry Research and Training Institute with headquarters at the University of the Andes, Jorgensen observes that first things come first in any attempt to change Latin America.

"The most basic goal to reach is to reduce illiteracy," he says, "but to do that requires teachers.

The teaching profession is poorly paid and so there is little enthusiasm among the University students to go into teaching.

"We can do our part by aiding in setting up normal schools but for the peons, not for those who now go to the universities. The peons are more likely to stay with the profession and should be given the opportunity of helping to raise standards.

"The great need in many Latin American countries seems to be the stabilizing influence of the middle class. There is only a small middle class in Venezuela and before it can exert any influence, education must start."

Jorgensen's job, while not directly connected with the university, brought him in contact with university people. Of them he says that faculty members from foreign countries (about half of the total, many from Europe) are excellent; native Venezuelans very poor, by our standards.

"I can't help interjecting here," Jorgensen explains, "to say that any judg-

ments we make of Latin America should come only after much study. I think I learned a lot on this trip, as well as a similar trip in 1952, but I don't profess to know all of the problems, let alone the answers.

"This, however, is true: the Venezuelan's sense of values is entirely different from ours. I'm sure a sociologist can explain it better than I but this is the way I see a Venezuelan:

"He has an obligation to be polite and inoffensive, but not necessarily to be trustworthy. If you ask if you might visit at his office at 9 a.m., he will say 'Yes, come ahead' because he doesn't want to offend you. But he very possibly won't be in the office when you call, and knows it when you are talking.

"To us, his sense of honor would seem completely distorted, and I can use the story of the T.B. patients to explain.

"The free government-supported hospital built an interior wall to separate patients in a large ward. Four patients tore the wall down. It was rebuilt by hospital authorities and again it was torn down. Officials then gave the patients an ultimatum: they must not tear the wall down, and they could stay or leave, as they chose. The four men signed out, three to almost certain death, because they felt they had been defeated and their sense of honor would not permit them to suffer this ignominy."

The power of students is uncommonly strong in Venezuela and in other Latin American countries. A faculty member who tries to bear down too much may find a strike on his hands, and when students strike they generally win.

"Last year the students were on strike for about half of the year," Jorgensen describes, "but seniors got their diplomas just the same, even though they had not nearly completed the work planned by the professors for that year. This is true even in the professional



Three boys from the Andes come to town. Lads at this age (11 to 13) are already earning their own way in the world, will not go to school because their income is needed to keep the family going.

schools, with doctors sometimes losing months of training because of student grievances."

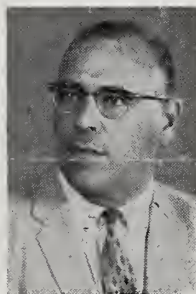
"But again we must understand the temperament of the Latin American. These student strikes are a form of freedom for them, and their understanding of freedom does not include discipline. In our democracy, we say that a man's actions must not interfere with the rights of others, but there is no such philosophy in the democracy of the Venezuelan."

Understanding the Venezuelan work habits is also not easy, Jorgensen found. The family had 12 maids in the period of 21 months, some leaving on their own accord, others being fired. The last one the Jorgensens had was there nine months, however, and proved to be an exceptional worker, considering herself lucky to be steadily employed at the fine salary of \$20 per month.

"One girl didn't like the food we had, so she stayed only a couple of days. Others we had to let go because of illness which might have been dangerous to us.

"In the main, however, given a job to do the peons will work hard and well, considering their limited education and training."

In Jorgensen's own field the need to get down to basic issues is best illus-



JORGENSEN



A typical Venezuelan town with the convenience of electricity but little else in the symbols of luxurious living. The great natural wealth of the country doesn't filter down to the peons, most of whom will work hard for a living. Without education, however, they are doomed to performing the most menial tasks, with little reward.

trated by the fact that although Latin America has forest reserves three times in area of that of the United States, little lumber is used for housing, especially in framing.

"The primary problem is one of decay, in this land of heavy rainfall and high humidity. Most of the woods will not stand up in these conditions, so that preservative treatments are necessary.

"But of the 8,000 species of timber in that country (compared to only 75 in the United States), only some 150 have been tested for acceptability of preservative treatments. Fundamentally, little is known about the properties of Venezuelan woods and one of the purposes of my work was to set up a research program in wood technology. By and large, the work went well, but there were some frustrations.

"The point is, however, that a start is being made, through the help of the United Nations, even if it is a very small beginning."

The extremes of wealth and poverty in Venezuela offer fertile fields for the Communist workers, Jorgensen feels. The common man, who has probably not gone to school, can be appealed to only by the person who is willing to go and live with him, and talk directly with him. Working through the upper echelons of the governmental organization, in the hope that some things will filter down, is unrealistic.

"There is another basic difference between these people and our own. You don't get anything accomplished without under-the-table payments, because it is an accepted practice. No one thinks it's wrong, because everyone does it. Consequently, much of the aid you give to the country is syphoned off before it reaches the peon."

A major problem for Venezuela at

present is inflation. In a land of great wealth through petroleum and minerals, it costs twice as much to live as it does in the United States, whereas in other Latin American countries, it costs only half as much. The peon, when he's working, earns \$1.50 per day, which in terms of our purchasing power represents only 75c per day.

"To help out, children often go to work as soon as they can walk, because if they don't work, they don't eat.

"There is great natural wealth in Venezuela but they haven't yet learned how to use it."

Politically, the Venezuelans are surprisingly active, not merely in the more obvious ways which are described as revolutionary, but also in the subtler methods. A very high percentage of people goes to the polls because voting is compulsory. The voters have a choice, however, and in the last election, Betancourt won because he had developed an especially effective political machine.

"Venezuelan armed forces must still be reckoned with in a political sense," Jorgensen says, "and the people themselves may start a revolution if they do not like the way things are going. But peaceful voting does settle many issues."

The Jorgensen family — wife Catherine, son Bruce (15) and daughter Nan, 11 — were somewhat isolated in that there were never more than four American families in the area of Merida at one time and before they left, there was only one other family. The children did their studying at home and had a few companions.

"We're all extremely happy to get home," he says, "especially the children, and I feel we all profited in one way or another from our foreign experiences.

Correct Telephone Listings

Faculty and staff members are reminded by Wilbur F. Diehl, manager of telephones, that listings in the Summer Telephone Directory should be checked carefully and any incorrect information reported to his office so that changes may be made in time for the new directory, which will appear about Oct. 1.

Departments should not only indicate incorrect numbers of any kind, but also report new employees and those who have left the University as well.

Changes may be indicated on the official Telephone Directory Cards, which are available from Mr. Diehl, at 5-5411, 318 Old Main.

Items of Interest

• Articles and Papers

H. D. Bartlett, agricultural engineering, on "Solar Heat Measurements of Poultry Buildings" and M. E. Schroeder, agricultural engineering, on "Recirculated-Air Wagon Drying with Related Structural Problem," at the meetings of the North Atlantic Section, American Society of Agricultural Engineers.

R. H. Wherry, commerce and management, a contributor to "Life and Health Insurance Handbook," edited by Dr. Davis W. Gregg, president, American College of Life Underwriters.

J. B. Washko, on machinery and methods for establishing forage crops, and J. H. Eakin, Jr., on machines for harvesting dense forage growth, both of agronomy, at the North Atlantic Section meetings, American Society of Agricultural Engineers.

R. K. Murray, history, an article, "Public Opinion, Labor, and the Clayton Act," in the May issue, "The Historian."

Personnel Matters

Dr. William H. Taubeneck, assistant professor of geology at Oregon State College, has been appointed visiting research associate in mineralogy, effective Sept. 1. He has been awarded a post-doctoral fellowship by the National Science Foundation in support of a laboratory study of granitic rocks from the Wallowa Mts.

* * *

Donald C. Jones, director and professor of mineral industries continuing education, plans to travel and study and do some writing while on a six-months leave of absence beginning Sept. 1.

* * *

Dr. Dagobert de Levie, associate professor of German, will fill a teaching chair at the Pedagogical Academy in Göttingen, Germany, beginning Nov. 1, during a six-months leave of absence. He will also be associated with the English department of the University of Göttingen, serve as lecturer at a number of conferences and seminars to be held by the U.S. Information Service in Germany, and hopes to do research.





faculty BULLETIN

A Weekly Publication
The Pennsylvania
State University

Note from the President

President Eric A. Walker has sent the following letter to all members of the faculty and staff of the University:

"On August 3, 1959, the Executive Board of the Commonwealth of Pennsylvania passed a resolution which states that all employees of The Pennsylvania State University who expect personally to receive extra compensation for services rendered to other agencies or departments of the Commonwealth, may be so compensated only when the University can assert formally that the additional work involved will not interfere or conflict with that employee's obligations to the University itself.

"In compliance with these instructions, effective at once, every member of the faculty who anticipates personal remuneration for special work for any State agency or department, will submit a written statement to the President of the University, through his or her Dean, which will (a) describe the service to be rendered, and state (b) the time required, (c) the extra compensation expected, and (d) the effect of such service on the individual's obligations to the University. Non-academic staff members proposing such service, will submit similar written statements to the President through their respective administrative officers.

"Under the terms of the Executive Board's directive, such service may be undertaken for extra compensation only after the approval of the President of the University has been received in writing."

(Note: The Executive Board to which President Walker refers consists of the Governor and six other heads of administrative departments designated by him from time to time.)

Governments Want Trained Men

WITH an increasing number of federal and state government jobs coming under civil service laws, young people looking forward to government careers can expect a much healthier atmosphere for their specialized talents now than at any previous time.

Dr. John H. Ferguson, professor of political science and director of the newly-established Institute of Public Administration, who spent the past four years in important roles in state government at Harrisburg, expresses the belief that political considerations now have less effect in the selection of state employees than ever before.

"This recognition on the part of State officials that professional talent rather than political debts should be the prime consideration in making appointments will mean that more and more competent people will accept government posts," Dr. Ferguson explains.

"Nothing in the past was more frustrating to a competent, trained person than to be faced with fellow employees or supervisors who knew little about their jobs and did not seem to want to learn."

During Dr. Ferguson's term in the office of Government Leader, he helped to put 10,000 professional and technical jobs under Civil Service. "Despite this advance, about two-thirds of our State jobs are still a matter of patronage," Dr. Ferguson points out. Indeed, Pennsylvania still has more positions under patronage than any other state in the Union. By way of contrast, in the Federal Government now, about 90 per cent of all positions are under Civil Service.

Public Responsible

Dr. Ferguson believes that the changing attitude in state government has been brought about by the public, as well as government officials, because of their insistence on competency in the job.

"The public today depends upon government for vital services, and unless a good job is done, the public figuratively rears up on its hind legs and demands better personnel. When the two-party system is working effectively, incompetency is quickly spotted."

Professionally-trained civil servants will, therefore, be in increasing demand, says Dr. Ferguson, and for that reason he believes that the new Institute of Public Administration will render a considerable service to the State.

"The Institute," he adds, "will not offer courses but will work closely with the Department of Political Science in the development of undergraduate and graduate courses. Recruiting and coun-

Dr. John H. Ferguson, who has been on the Penn State faculty since 1934, obtained his A.B. degree from Nebraska Central College and his advanced degrees from Catholic University of America and the University of Pennsylvania.

After a year as a high school teacher in Monroe, Nebraska, he assumed the post of director of boys' work at Friends' Neighborhood Guild in Philadelphia from 1930 to 1934.

In 1947, Dr. Ferguson was named head of the department of political science. The following year, while on leave, he was dean of the School of Politics, New School for Social Research and in the summer of 1949 director of the New School Summer Sessions in Europe.

In 1955, Gov. George M. Leader tapped him for the post of director of program and research for the Office of Administration. He returned from the service with the Commonwealth government in January.

Only recently Dr. Ferguson was cited for outstanding achievement in the field of public administration by Central Pennsylvania Chapter of the American Society for Public Administration.



seling of graduate students in the field of public administration will also be carried on, and we will undertake to find additional money to increase the number of scholarships, fellowships, and assistantships in this general field."

There is no fear of job shortage in the field, Dr. Ferguson explains, because there are many agencies in state government alone which can use people trained in public administration, and local and federal government posts are also available.

"Just as one small illustration," he says, "the State Budget Bureau when fully staffed should have at least a dozen analysts and most operating departments also require analysts. This same type of job is found in many local governments and the Federal Government hires analysts by the hundreds. One logical source of supply for this type of person is the graduate of public administration curriculums."

The growing complexity of governments in municipalities, boroughs, and townships has already shown the need for men and women trained in public administration, with about a hundred borough managers now holding positions in the State. In some states there are managers on the county level.

"Many students who now take no work in political science and public administration can profitably do so," Dr. Ferguson notes. "After all, governments employ hundreds of persons trained in engineering, agriculture, home economics, education, business administration, and medicine. To know something about the art and science of government would speed professional advancement

and improve governmental services."

"It is also important to realize," Dr. Ferguson adds, "that the ordinary citizen needs to be well-informed about government. Not only does he pay the bill and partake of government services, but he may someday hold public office. Moreover, many of today's problems—slum clearance, juvenile delinquency, full employment, clean streams, garbage and trash removal—require governmental action. Wise solutions require informed leaders and lay citizens who understand the nature and operations of government."

Dr. Ferguson thinks that the new Institute can help meet this need in cooperation with Continuing Education Services.

Dr. Ferguson also expects to develop credit courses in public administration in Harrisburg and possibly also on the Commonwealth Campuses, in cooperation with other universities.

"It is our thought that an arrangement of this type would permit administrative internes and trainees working in Harrisburg and vicinity to continue their graduate studies," Dr. Ferguson explains, "and Federal, State, and local employees working in the Harrisburg area could also begin or continue their study of public affairs."

Research in government problems will be emphasized by the Institute, through special studies of its own, or cooperating with other departments on campus or governmental agencies.

"Some idea of the kinds of research we expect to do," says Dr. Ferguson, "might be illustrated by the following projects: resource materials for revising Pennsylvania's Constitution; personnel administration in state and local governments; industrial development and relocation in Pennsylvania; planning and zoning by Pennsylvania's state

and local governments; and many others."

Improvements in governments, Dr. Ferguson is convinced, will come about as the public becomes better informed and more professionally trained people take over the vital posts in both local and state governments.

"It has been three decades since Pennsylvania had its first civil service employees," he points out. "These were in the Liquor Control Board. The next important step was not taken until adoption of Social Security legislation, when the Federal Government made civil service a prerequisite for state participation.

"I feel that the 10,000 jobs put under Civil Service by Governor Leader have already brought about more effective operations.

"It is important to young people contemplating government service in Pennsylvania to believe that there is a good future ahead of them, limited only by their own talents.

"Today, in many agencies of the Commonwealth, a young man can expect to rise at least to the rank of a bureau chief without political sponsorship.

"I think the day is near when he will have that same opportunity in all agencies and when this is true, professionally-trained men and women will look more favorably upon government service as a career."

Scholarship Awarded

Ten Philadelphia area students have been awarded \$500 Abby A. Sutherland Scholarships for this year at Ogontz Campus. The scholarships were established from funds granted by the Ogontz School, a private school for girls which Miss Sutherland headed for many years. The scholarships were first established in 1957.

Calendar

Sunday, Sept. 13

Orientation Week activities begin with arrival of new students.

Wednesday, Sept. 16

Registration for fall semester classes begins. Continues until Saturday noon.

Sunday, Sept. 20

Chapel Service, Schwab Auditorium, 10:55 a.m. Dr. Brown Barr, Yale University Divinity School.

Monday, Sept. 21

Classes for Fall Semester begin 8 a.m.

Thursday, Sept. 24

University Senate meets, Room 121, Sparks Building.

Faculty Symposium

A Faculty-Trustee Symposium, sponsored by the local chapter of the American Association of University Professors, will be held on Thursday, Oct. 1.

Members of the faculties at University Park and the Commonwealth Campuses are invited to attend.

The Symposium has as its theme this year, "The Mission of the State University — A Design for Quality." The program includes an assembly at 3:30 p.m. at which Dr. Russell I. Thackrey, executive secretary of the American Association of Land Grant Colleges and Universities, will speak on "The Responsibility of the Growing State University."

At 4:15 p.m., members of the faculty will lead discussions on topics related to the central theme. An open house program will be held in the lounge of the Hetzel Union Building at 5:45 p.m.

The annual dinner will be held in the ballroom of the HUB at 6:30 p.m., with members of the Board of Trustees in attendance.

Following dinner, a symposium on the theme "The Challenge of the Future for the State University," will be held with four members of the Board of Trustees discussing the topic.

faculty BULLETIN

Vol. 47, No. 1

Sept. 11, 1959

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

Arthur F. Davis,
229 Rec Hall,

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

At convocation

(The following are excerpts from the talk by President Eric A. Walker to the freshmen and transfer students on Monday, Sept. 14 at their convocation.)

... most of the adjustment you will have to make will be a lonely affair. We do not wish it to be this way; but we know of no way in which we can treat you as adults while, at the same time, protecting you from adult responsibility. And the difference between high school and university life — the difference to which you must adjust — is characterized by our insistence on your adult status.

* * *

I should like to tell you quite frankly that, no matter what you might have heard, Penn State is not a country club. While you are here, you will be expected to work hard. . . . We feel that the business of getting an education is a seven-day-a-week job, and we do not expect you to be able to go home every weekend.

* * *

I must warn you that your professors are going to assume that your being here means that you have elected to dig in.

* * *

Your professors are going to do the best they can to supply that need (to make the student do what he can) while you are here at the University. They are dedicated people who often remain in teaching at a sacrifice in salary quite simply because they love to teach.

* * *

According to this (new) rule, any Penn State student may visit any class taught at the University. All that is needed is the permission of the professor teaching the class. I hope all of you will take full advantage of this rule.

High schools are well informed

PENNSYLVANIA high schools are kept well-informed of the progress of their graduates at Penn State, says Dr. Robert G. Bernreuter, dean of admissions and registrar and special assistant to the president.

Through a series of reports beginning when the student enrolls at Penn State and continuing until he graduates, each of the more than 1,000 high schools in the State is kept up-to-date on his academic standing.

Every fall a listing of each school's graduates enrolling at Penn State is sent to the principal so he knows that he can expect progress reports in the future. About half of the colleges of the State make reports similar to those of Penn State although few are as complete.

From the English department are sent out reports on the results of English placement tests given during the summer, indicating which students have been exempted from English I and which are required to take English O.

At the end of the freshman year the student's complete grade report is sent to the high school.

In the fall also, a complete summary of the grade point averages of all students of each high school enrolled is sent to the school principal. This report includes a summary of the averages of the students by their high school ranking; first-fifth students are listed together and their composite average shown, the same applying to the other rankings. To give the high school principal a method of comparison, averages are shown for the various ranks of all students at Penn State, not alone those of his school.

English sends results

The English Department also sends the results of the tests given to liberal arts and education students at the end of the third semester and to engineers during the sixth semester.

Finally, upon graduation, the student's complete four-year record is sent to the high school.

To what extent the schools use this information is unknown except in individual cases, but it is thought that many schools keep a check on the progress of their graduates in certain fields, such as English, mathematics, and the sciences to evaluate their own programs.

Says T. Sherman Stanford, associate dean of admissions: "Perhaps three or four times a year we also make special studies for interested high schools because they use the information to attempt to improve their offerings. I

know from discussions at college night programs that some schools use our information in presenting proposals to their school boards. On at least one occasion I saw a school paper which listed the recent graduates who were exempted from English Composition 1."

The summaries of grade point averages show distinct differences in the records of students from different high schools, although there is great overlapping of grades. College Area schools, incidentally, rate near the top, on the average.

"While it is also true that first-fifthers on the average show higher grades than students in lower groups from any one school, there are some third or even fourth-fifthers ranking higher than first-fifthers," says Stanford.

Dr. John S. Bowman, professor of English composition, has had intimate contact with that department's program for a number of years. He receives correspondence from perhaps 30 or 40 schools each year about the test results and has on many occasions met with groups of English teachers to explain Penn State's English program.

"Now we are preparing a booklet which will eventually go to all high schools. This booklet will explain the testing program, our courses, and discuss the new ruling of the University Senate to the effect that after 1962 no student will be admitted to the University unless he is capable of English Comp. 1 work."

The advent of IBM equipment has made possible much of this reporting since only a small part of the preparation of the report is manual. Robert M. Koser, Jr., associate registrar, and Warren R. Haffner, assistant to the registrar, who prepare the reports, point out that the grade summaries are in the mail by September 1 each year, in plenty of time for the school principal to make use of them in presentations to his school boards or teachers during the school year.

U club reception Nov. 1

The annual reception at the University Club will be held on Sunday, Nov. 1 from 3 to 5 p.m., the board of directors has announced.

Department draws praise

The department of poultry husbandry has been singled out for praise by the publication "Processing Equipment News," published by the Barker Poultry Equipment Co., Ottumwa, Ia. The national publication details the growth and development of the department and commends it for its many accomplishments.



The HUB art gallery, scene of 16 exhibits this year.

Committee Sets Art Calendar

EXHIBITIONS of the sculpture and drawings of Adolph Dioda and the graphic arts of Paul Rand will open the 1959-60 University Art Exhibition program on Friday, Sept. 18. These exhibitions will remain in the Hetzel Union Building Art Gallery until Oct. 3.

A total of 16 exhibitions have been arranged by the Exhibition Committee, which is headed by Dr. George Pappas, assistant professor of art and art education. Other members of the committee are Yar Chomicky, associate professor of art education; Bruce Shobaken, instructor of art; Bill Hanson, instructor of art, and Rolv Enge, assistant professor of architecture.

Such areas as painting, sculpture, graphic arts, education, photography, crafts, architecture, theatre arts, and art history will be represented in the exhibition calendar. Local artists and those nationally known from all over the country will be shown, Dr. Pappas points out.

Highlights of the calendar include: a print show, including the works of eleven outstanding American graphic artists; an invitational show to include works of Ponsett-Dart, Hedda Stern, and Donati; the premier showing of works selected by nationally known museum directors and critics; and "Art of Adolescence," an exhibit of paintings by adolescents from 29 countries, including some from behind the Iron Curtain.

The complete schedule of exhibitions is as follows:

Sept. 18-Oct. 3—Adolph Dioda, sculpture and drawings, and Paul Rand, graphic arts.

Oct. 7-Oct. 23—Photographs of Angkor Wat monuments in Cambodia, taken by Lake Wan Tho.

Oct. 28-Nov. 16—Faculty exhibit.

Nov. 21-Dec. 10—Invitational Print Show, showing the works of 11 American printmakers.

Dec. 15-Jan. 12—Tribute to Betty Parsons Gallery, with works of Donati, Guerrero, Ponsett-Dart, and H. Stern.

Jan. 6-Jan. 23—Art of Adolescence.

Feb. 5-Feb. 24—Paintings, drawings and prints of Bruce Shobaken, and a photographic study of the contemporary theatre in the U.S.

Feb. 29-Mar. 17—Paintings by Bill Hanson, and prize winning photographs in the field of architectural photography.

Mar. 20-Apr. 5—Paintings and drawings of Edwin Zoller.

Apr. 8-Apr. 22—Premier showing of works of outstanding new talent as selected by museum directors and critics; also graphic arts by Ben Shahn.

Apr. 29-May 9—Work by students from departments of art and art education.

Lumley appointed to ORL

Dr. John L. Lumley has been named assistant professor of engineering research at the Ordnance Research Laboratory. A graduate of Harvard University, he received both his master of science and doctor of philosophy degrees from John Hopkins University. He has been employed by the Curtiss-Wright Corp. and, for the past seven years by Johns Hopkins in the mechanical engineering department and McCoy College.

Open house Sept. 23

State College area residents will have an opportunity to see the new North Halls, or at least part of them, on Wednesday, Sept. 23, from 6 to 8 p.m.

An open house program will be held at that time in Warnock Hall, the dining facility building for the area, and Centre House, one of the four residential areas in Holmes Hall. Visitors are asked to start their tour at Centre House.

Dedication of Centre House, first to take place in North Halls, will be held also on Sept. 23, following a luncheon for invited guests at noon. The dedication will take place in the lounge of Centre House, and the guests will then tour the facilities.

Each of the four halls in the area has been subdivided into houses of approximately 70 men students each. Officers for each of the houses will be elected by the residents. It is expected that competitions scholastically and athletically will develop between houses after they are organized.

650 computer installed

Installation of an IBM Type 650 computer, to replace the Type 604 now in use, is expected to be completed by the end of September at the Computation Services laboratory in Rooms 101 and 102 Boucke Building. Dr. Donald T. Laird, in charge of the unit, has announced.

The computer will be available for use in research and instruction by all academic departments. Faculty and graduate students are invited to make use of the equipment in their work, with the aid of the Computation Services staff.

To acquaint faculty members and graduate students with the use of the computer, a series of non-credit workshops will be held during the year. The first of these, dealing with elementary 650 programming, is scheduled to meet from 7:30 to 9:30 p.m. in Room 214 Boucke, Monday through Thursday, Sept. 21-24. This semester, 650 programming will also be taught in a formal course, Eng. 430.

Further information and assistance in planning computer applications may be obtained by contacting Computation Services, 5-2081.

UCA open house Sunday

The University Christian Association will hold an open house program on Sunday, Sept. 20 from 3-5 p.m. at the Helen Eakin Eisenhower Chapel. Officers and committee chairmen will be present to answer questions about U.C.A. activities.

Items of Interest

• Articles and Papers

Julia Gregg Brill, emeritus, has compiled and edited a monograph titled "Lucretia Van Tuyl Simmons: An Appreciation," which honors the late Miss Simmons who was on the faculty from 1903 to 1939 in various capacities.

Norman Davids and Andrew Pytel, engineering mechanics, a paper titled "Transient Analysis of Stress Wave Propagation in Plates," given at the Midwestern Conference on Fluid and Solid Mechanics at the University of Texas.

I. B. McMaster, Research Reactor, an article in the September issue, *Nuclear Fishing*.

G. R. Smith, English, an article "Iago the Paranoic" in *American Image*, Summer 1959; and a review in *Colorado Review* of Geoffrey Bullough's "Narrative and Dramatic Sources of Shakespeare."

N. R. Diller, management training, an article titled "Communications and Effective Management" in the September issue of *Cole Age*.

J. W. Bratzler, J. L. Gobble, T. B. King, Emery Keck, College of Agriculture, at North Atlantic Section Meeting, American Society of Animal Production, at the University of Connecticut.

At American Farm Economics Association meeting, Aug. 23 to 26, at Cornell University, the following papers: G. E. Brandow, "The Current State of Agricultural Economics: The Policy Controversy"; Herman Southworth, "Encouraging Fundamental Research in Agricultural Economics."

At joint AFEA and Rural Sociology Society meeting, a paper by R. C. Buck, on "Implications of Rural Youth Migration and Occupational Mobility to Agriculture."

At Rural Sociology Society meeting, the following papers: F. C. Fliegel, on "Low Income — Perception of an Experience with Credit as Possible Obstacles to Change"; Francena L. Nolan and Dawn H. Tuttle, "Employed Homemakers in a Rural Community"; R. C. Bealer, "Variable Research in Rural Sociology: Some Needed Implementations"; Emory Brown, "The Role Expectations of Middle Management in the Cooperative Extension Service"; M. E. John, "Rural Sociology in Modern Times"; J. H. Copp, "Loyalty of Members in a Farmer Cooperative."

M. E. John and J. H. Copp, a paper on "Rural Sociology in an Industrialized Society," at the American Sociological Society meeting, Sept. 3-5, in Chicago.

G. L. Crossley, electrical engineering,

a paper at the meeting of the United States Civil Defense Amateur Radio Alliance, at Battle Creek, Michigan.

R. K. Murray, history, an article titled "Government and Labor during World War II," in the September issue of *Current History*.

C. C. Spence, history, three articles: "Robert C. Schenck and the Emma Mine Affair," in the *Ohio Historical Society Quarterly*; "The Montana Company, Limited," in "The Business History Review"; and "Experiments in American Steam Cultivation" in *Agricultural History*.

L. E. Corter, political sciences, an article in *The County Reporter*, Aug., 1959, titled "You, Your County and Public Relations."

• The Arts

M. S. Osborne, architecture, and wife Sophia, an exhibition of water colors and sketches and of oils at the Massillon Museum during September.

• Elected or Appointed

Brice Harris, English, vice president for colleges for the Pennsylvania Council of Teachers of English at its annual meeting Sept. 4-5.

Scholastic action

Nearly a third of all the undergraduate students enrolled during the Spring Semester at University Park and at Commonwealth Campuses were subject to scholastic action — dropped, placed on probation, or warned — a study by the Office of the Registrar shows.

A total of 4,060 actions were taken, the study shows, of which 722 were drops (18 per cent), 1269 were probations (31 per cent), and 2069 were warnings (51 per cent). The 722 drops represent 5.65 per cent of the student body.

Nearly half of the freshmen in attendance were subject to scholastic action. Of the 4067 enrolled, 1887 (46.39 per cent) were dropped, placed on probation, or warned. Percentages for other classes were: sophomores, 37.02; juniors 23.67; seniors 11.08.

Booklet describes area

A new 72-page indexed booklet published by the State College League of Women Voters and describing State College and other Centre County communities is now available and may be of interest to newcomers to the faculty.

Titled "Centre Piece," the booklet's contents include descriptions of local and county government, taxes, public schools, community resources, borough services, health and welfare, sources of employment, recreational facilities, etc.

Booklets are available at local bookstores.

Senate Minutes

ANNUAL REPORT COMMITTEE ON MILITARY INSTRUCTION

1. The Committee reviewed the University Long Range Plan dealing with R O T C and made recommendations to the Vice-President for Development concerning space requirements.

2. Recommendations were made to the Vice-President for Instruction Office concerning the division of enrollment of basic R O T C students between Air Force and the Army.

3. A review was made of the Student Cabinet report on R O T C dated 23 April, 1959 and recommendations were made to the President.

4. A meeting was held with the Scheduling Officer and scheduling of R O T C classes was discussed.

5. The Committee served in an advisory capacity to the Dean of Men on administrative matters dealing with student requests for exemptions from R O T C.

E. R. Queer
Chairman

ANNUAL REPORT SENATE COMMITTEE ON STUDENT AFFAIRS

The Senate Committee on Student Affairs represents the faculty interest in the regulation and control of all organized student extra-curricular activities except athletics. This is a large assignment and it can be carried out only by limitation of function to that of policy formulation and interpretation.

The primary consideration, which orients the committee's point of view, is that all student activities should contribute directly or indirectly to the fulfillment of the basic mission of the University, that of education of its students. Here, as in all other matters under Senate jurisdiction, the role of faculty in the University must be understood. It is the *faculty*, through its Senate representation, that sets academic policy. We feel that this should be just as true outside the classroom as it is inside the classroom. For example, if Spring Week or Froth or Thespians are failing to contribute adequately to the educational program or if they are infringing excessively upon other phases of the program, the faculty has the necessary authority and the responsibility to make such policy changes as may be necessary to restore a more proper balance.

This is not an easy assignment, but it is not one which should be scorned in favor of Ivory Tower speculation. The Committee on Student Affairs and its several sub-committees has met frequently during the past year in order properly to discharge its responsibilities. The published minutes of the Senate bear witness to much of this activity in matters where rule changes were necessary. In other matters, such as the chartering of social organizations, the development of a new student government association, the encouragement of Honor Systems and similar activities the official records indicate only in small measure the labors of this committee.

It is the committee's earnest hope that the wide scope, the vigor and the essential soundness of campus student organizations is sufficient evidence that our approach to this matter of extra-curricular student education is fundamentally compatible with the general objectives of this University.

Edwin P. Nye
Chairman

Alumni fund grows

Since 1953, when the Penn State Alumni Fund program was started, nearly \$1,200,000 has been given to the University by some 61,000 individuals, the Alumni Office reports.

The 1959 campaign for funds, which closed on June 30, resulted in contributions from 5,358 graduates and a sum of \$104,794.04. In former years, the campaign closed on Dec. 31. Contributions received during the balance of the year will be counted in the 1960 campaign, which officially opens in the fall.

Contributions to the Fund are used for purposes for which appropriated funds and funds received from other sources are not available.

You are invited to FLC

The Faculty Luncheon Club will resume its weekly meetings on Monday, Sept. 21, in dining room "A", Hetzel Union Building.

Dr. Mary L. Dodds, professor of foods and nutrition, will discuss recent studies at Penn State under the topic, "Everyone Eats, But How."

New faculty members are especially invited to attend these weekly meetings. Luncheon is served from 11:50 a.m. to 12:30 p.m. Tickets are obtainable at the main desk of the HUB, priced at \$1.30. Each week speakers from the faculty or from off campus present talks of general interest.

The steering committee for the year includes Mildred Ailman, Charles J. Rowland, Thomas E. Sterling, Mary Willard, and Thomas Smyth, Jr.

Alumni organizations

The Board of Trustees has authorized a plan for the formation of alumni societies for each of the colleges, to be organized as constituent groups of the Alumni Association.

Membership in the Alumni Association will be a requirement for membership in the constituent society, it is explained. Main purpose of the plan is to eliminate fragmentation and confusion among graduates concerning dues requests and fund solicitations, to create a balance in the needs of respective colleges and that of the University, and to avoid duplication of effort.

Constituent groups will have their own boards of directors, officers, and programs.

Fraternities scholastically

Alpha Zeta fraternity earned the highest combined scholastic average for fraternities and sororities for the Spring, 1959, semester, a report by Wilmer E. Wise, assistant to the dean of men reveals. Alpha Chi Omega was the highest among sororities and was second to Alpha Zeta overall.

Wise's study showed that Alpha Zeta's 57 members and pledges earned a combined average of 3.09, to 3.04 for Alpha Chi Omega sorority and 2.95 for Triangle fraternity, which was second among the men.

The summary shows that all fraternities and sororities had combined averages above 2.1. The average of all fraternity men was 2.43, compared to 2.36 for all male students. Thirty-four of the 53 fraternity chapters were above the All-University men average.

NSF fellowships

Graduate students wishing to seek a grant under the National Science Foundation Cooperative Graduate Fellowship Program for the 1960-61 academic year are advised by the Graduate School office that applications should be made now.

This is the second year for the program. Last year Penn State received 21 fellowships, although the University's quota was 38.

Further information regarding this program may be obtained from the Graduate School office, 104 Willard Building. Final date for acceptance of applications is Nov. 6.

Calendar

Sunday, Sept. 20

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Browne Barr, Yale University Divinity School.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Samuel N. Gibson, executive director of the University Christian Association.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

UCA Open House, 3 to 5 p.m., Helen Eakin Eisenhower Chapel.

Hillel Brunch, Hillel Foundation, 11 a.m.

Monday, Sept. 21

Fall Semester classes begin, 8 a.m.

Thursday, Sept. 24

University Senate meets, Room 121, Sparks Building, 4:10 p.m.

Friday, Sept. 25

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. G. R. Rigby, director of research, Canadian Refractories, Ltd., Quebec, Canada, on "Volume Expansions in Solid State Reactions."

Next Month

Oct. 7 — Graduate School Lecture by The Reverend Gustav J. Weigel, S. J., theologian, Woodstock College.

Tickets for symposium

Tickets for the Faculty-Trustee Symposium, sponsored by the American Association of University Professors, are available from members of the ticket committee. The Symposium and dinner will be held on Oct. 1.

Members of the ticket committee include Leslie P. Greenhill, chairman, Merwin Humphrey, Franklin H. Cook, Lyman C. Hunt, John B. Nesbitt, Mary L. Dodds, H. J. O'Brien, John J. Schanz, Ralph R. Ricker, Philip S. Skell, Rose M. Cologne, William H. Folwell, Elsa Lisle, Lt. Col. Robert B. Hayes, Julia Brill, Merle Campbell, and Harold E. Dickson.

faculty BULLETIN

Vol. 47, No. 2

Sept. 18, 1959

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Wairs, Mrs. T. I.
Cent Library

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Symposium Thursday

Dr. Russell I. Thackrey, executive secretary of the American Association of Land Grant Colleges and Universities, will be the keynote speaker of the Faculty Trustee Symposium Thursday, Oct. 1. The Symposium is on the general theme, "The Mission of the State University — A Design for Quality."

Speaking at an assembly in Room 119 Osmond, at 3:30 p.m., Dr. Thackrey will have as his subject, "The Responsibility of the Growing State University." He will be introduced by Lawrence E. Dennis, vice-president for academic affairs.

Following the Assembly, various topics related to the main theme will be discussed in nine different sessions, all in Boucke Building, with the following as chairmen: Mrs. Lois Hyslop, Harold P. Zelko, John H. Ferguson, W. Conard Fernelius, Clarence R. Carpenter, Arthur H. Reede, R. Wallace Brewster, Marsh W. White, and Macklin E. John. These sessions are all at 4:15 p.m.

A pre-dinner open house will follow at 4:45 p.m. in the lounge of the HUB.

After dinner, which is at 6:30 p.m. in the HUB ballroom, President Eric A. Walker will introduce the trustees and wives present and James B. Long, president of the Board of Trustees, will respond.

Dr. John R. Rackley, dean of the College of Education, will be chairman of a Symposium on "The Challenge of the Future for the State University," with trustees H. Thomas Hallowell, Jr., and Ralph Hetzel and faculty members Robert Scholten and Alfred G. Pundt.

Ticket sales, reports Leslie P. Greenhill, chairman of the committee, are going rapidly but some are still available through various representatives.

Artists series an education

THERE is always a certain gamble in making up a season's program of music and theatre such as the Artists Series, admits Dr. Ralph W. Condee, acting chairman of the Committee which planned this year's 16 events.



Dr. Condee

The Artists Series schedule begins Sunday, Sept. 27, in Schwab Auditorium, at 8:30 p.m., with a performance by Tosy Spivakovsky, Russian-born, German-trained violinist.

"With the exception of those people who have a particular knowledge of certain artists," Dr. Condee says, "we can't really know what to expect in the way of reaction to our program. In effect, we are groping."

"But we have learned this in the three years of the Artists Series: never underestimate the students. They have demonstrated time and again that they understand and appreciate some of the most esoteric presentations."

Dr. Condee emphasizes that the Artists Series is an educational venture for the students, designed to give them experiences in the arts, to broaden their undergraduate years. Entertainment as such is secondary to the educational process.

"But the interesting experience is," he adds, "that these programs also turn out to be entertaining."

The groping Dr. Condee spoke of in making up the program refers only to audience reaction. Many hours of thought, research, and discussions go into filling out the potential dates. The Committee makes the final decisions and the Committee for this year was, in addition to Dr. Condee, who is acting for Dean Ben Euwema as chairman, Dr. Robert G. Bernreuter, Hummel Fishburn, Mrs. Georgia K. Selsam, Robert D. Reifsnider, T. Reed Ferguson, George L. Donovan, Woodrow W. Bierly, six students, and Mrs. Nina C. Brown, administrative assistant to the Artists Series, who handles the many details of the operation, including the actual booking of the artists. The students on the committee include Cabinet president, and chairman of various cultural committees.

To all of these people come, via word

of mouth or by letter, many suggestions of artists. Booking agents, also, are quite liberal with their suggestions. Individually some members of the committee scan the newspaper reviews and draw upon their own experiences in lining up the program.

"There are obviously a number of criteria the Committee must use in its deliberations," says Dr. Condee. "Only certain artists are available for our type of production, and this places a real limitation on us in relation to groups, particularly theatrical groups. Most such organizations will not schedule one-night stands, and we can't justify having them for more than two performances."

"Certainly the economics of the situation is important also. On the one hand, I doubt that there is any artist in the country who is high priced enough that we could not get if we really had the incentive to get him. But should we reduce the number of offerings to book an extremely high-priced artist and thereby limit the number of experiences the student may have?"

"The interesting point here is that sometimes the relatively obscure artist, much lower in price, may present just as good a program as the well known artist. That's part of the gamble I spoke about."

"The members of the Committee believe that building a calendar on names alone would be a misuse of the funds we have."

Space a problem

A third point in the Committee's deliberations is the problem of space. Schwab Auditorium seats only 1150 persons. Recreation Building seats up to 5,000 depending on the type of production, but it is limited in its usefulness for certain types of productions, the Committee believes.

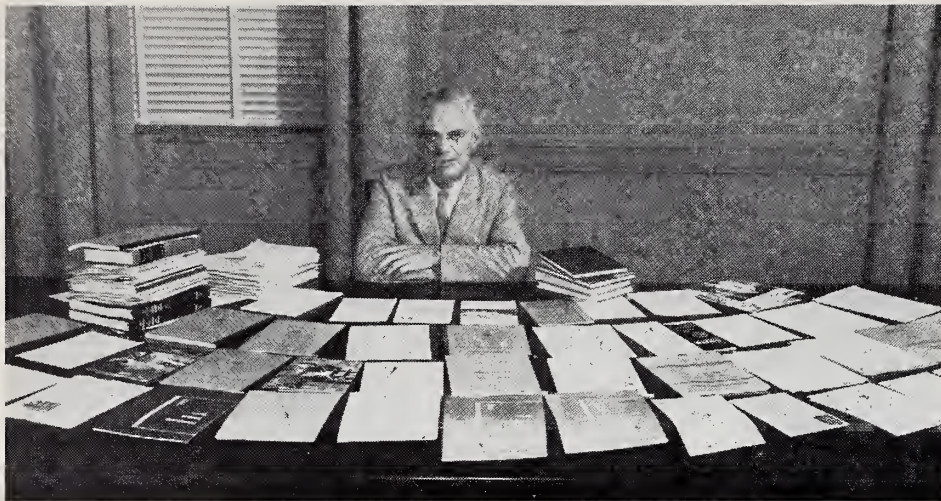
Interesting enough, Mrs. Brown points out, is the fact that the Series has been a success attendance-wise. Last year, for example, full houses were listed for 11 out of the 14 performances given in Schwab Auditorium and one of those not filling the house was an afternoon performance by the Canadian Players who gave the same show in the evening.

At Recreation Hall, the Philadelphia Orchestra "sold out" and the Iglesias Ballet performed before about 4,000, which was also considered capacity, considering that the Ballet required most of the floor space. On the other hand, the Danish Orchestra drew 3,684

(Continued on page four)



Spivakovsky



Dr. M. A. Farrell with a sample of writings

Faculty is prolific

Judging by the impressive collection of books, papers, bulletins, monographs, etc., piled high on the desk of Dr. M. A. Farrell, vice president for research, Penn State's faculty is a "writing faculty."

"I don't believe that I have copies of all the writings of our faculty," Dr. Farrell says, "but those I have cover subjects of as wide a range as you can imagine — from calories to coal mining, and from anthropology to zoology."

Although a great many of the writings are products of the 1,200 research projects now underway at Penn State (representing an annual budget of approximately \$9 million), others are not derived from sponsored research but are the results of the private studies of faculty members.

Requests for the publications, says Dr. Farrell, come from all over the world and all states.

Grade distributions

The distribution of grades received by undergraduate students during the Spring, 1959, semester was essentially the same as the distribution a year ago and also five years ago, a study by the Office of the Registrar indicates.

Warren R. Haffner, assistant to the registrar, and Mrs. Evelyn Homan, who made the study, report that of the 80,356 grades "A" through "F" recorded in the office last spring, 18.8 per cent were A's; 53.0 per cent were A's or B's, and 84.4 per cent were C's or better. The corresponding percentages for 1958 were 18.8, 53.3, and 84.1; for 1954, they were 19.6, 54.1, and 85.3.

The percentages of F's (which in the 1954 study were recorded as -1's and -2's) for 1959, 1958, and 1954 respectively were 4.0, 4.2, and 4.1.

The number of grades recorded increased by 43 per cent in the past five years, the study shows. The complete tabulation is as follows; with the numbers of each type of grade indicated:

	1959		1958		1954	
	No.	%	No.	%	No.	%
A	15,085	18.8	13,555	18.8	11,605	19.6
B	27,495	34.2	24,876	34.5	20,992	35.5
C	25,224	31.4	22,208	30.8	17,852	30.2
D	9,348	11.6	8,436	11.7	6,282	10.6
E	3,204	4.0	3,028	4.2	2,396	4.1

Personnel matters

Jane Brinton, coordinator of nursing education in Continuing Education Services, has been appointed assistant dean of nursing, the School of Nursing, University of Missouri. She will begin her new duties Oct. 1.

(Inquiries regarding the nursing education program should, for the present, be addressed to Thomas J. Rung, 5-6535.)

Dr. Robert G. Cochran, director of the Research Reactor and associate professor of nuclear engineering, has resigned to accept a position as head of the department of nuclear engineering at Texas A. and M. College. He will assist in the design and construction of a reactor in his new position.

David B. VanDommelen, who has served as an elementary art teacher in Warren, Mich., consolidated schools, has joined the faculty of the College of Home Economics as instructor in home art. He holds bachelors and master of arts degrees from Michigan State University and a diploma from the F. Harrington School of Professional Interior Decoration.

Television schedules

Lawrence E. Dennis, vice-president for academic affairs, will appear on a television program over WFIL-TV, Philadelphia, on Monday, Sept. 28, from 8:30 to 9:30 p.m. The program is concerned with "The Problems of Higher Education" and will bring together the heads of colleges and universities of the Delaware Valley.

The course in American history taught by Dr. Robert K. Murray, head of the department of history, is being broadcast by WFBG-TV, Altoona, each Monday, Wednesday, and Friday, from 9:00 to 9:50 a.m.

Closed circuit telecasts this semester will be made of 17 courses in history, anthropology, music, psychology, sociology, air science, zoology, archaeology, mineral industries, accounting, mathematics, commerce, German, English composition, and meteorology.

The "Men and Ideas" program over WFBG-TV at 9:50 a.m. on Monday, Wednesday, and Friday, starting next week, is concerned with the question, "Are the Mass Media Mediocre?" and will feature Eugene S. Goodwin, director of the School of Journalism, Robert T. Oliver, head of the speech department, and Walter H. Walters, head of the theatre arts department, as moderators for the 13-weeks series. The programs will be via videotape. Next week's program will bring together the three hosts for a preliminary outline of the series, with Gilbert S. Aberg, radio-television producer of the department of public information, as moderator for the week.

Parking areas opened

Five major parking areas on campus have been designated as open areas for off-hour parking.

Between 5:30 p.m. and 7 a.m. on weekdays and also from 12:30 p.m. Saturday to 7 a.m. Monday, these areas will be available for parking by faculty and staff members and students, regardless of which area their permits are issued for, and also for visitors.

The five areas are: No. 11, south of Recreation Building; Nos. 70 and 70A, north of Pattee Library; No. 23 east of the Hetzel Union Building; and No. 46, north of South Halls.

With the exception of these areas, it is pointed out, faculty and staff members and students may park only in the areas indicated on their parking permit 24 hours a day and 7 days per week.

Items of Interest

• Elected or Appointed

A. H. Waynick, electrical engineering, appointed as three-year charter member to new six-member Advisory Panel to the National Science Foundation Program for Atmospheric Sciences.

J. F. Krawiec, clothing and textiles research, appointed advisor to the Committee on Laundry Management, American Hospital Association.

• Articles and Papers

R. W. Swift, animal nutrition, and Katherine Fisher, Mary L. Dodds, and Miriam E. Lowenberg, all of foods and nutrition, chapters in "Food," the 1959 Yearbook of Agriculture, published by the U.S. Department of Agriculture.

G. U. Oppel, engineering mechanics, a paper at the annual meeting, Society for Experimental Stress Analysis on photoelastic strain gages, in Detroit, next month.

Joseph Marin, engineering mechanics, a paper at the annual meeting, American Society for Testing Materials, next month, on proposed changes in standards for defining properties of materials.

W. A. Williams, industrial education, a paper on "The School's Contribution to Occupational Safety," at the Annual Pennsylvania Occupational Safety Conference, Sept. 9-10.

Senate Minutes

ANNUAL REPORT EDUCATIONAL POLICY COMMITTEE

The Educational Policy Committee met 35 times during the period September 23, 1958 through May 26, 1959. Each meeting was of two hours duration. The appendices referred to below are on file in the office of the secretary of the Senate.

Eight sub-committees were appointed to assist in various studies. Four sub-committees were discharged following receipt of their reports. The sub-committees and their memberships are shown in appendix 1.

The EPC re-defined its function which is shown in appendix 2.

The following items of policy were considered together with the dispositions made.

A. *Television Instruction.* A study was made of the instructional television research reports to determine the significance of these findings in planning the future use of TV as an educational device, see appendix 3. An informational report was presented to the Senate on November 4, 1958. The sub-committee is continuing deliberations preparatory to developing recommendations regarding the use of TV for instructional purposes.

B. *Freedom of class attendance.* The EPC report establishing a policy that students and university personnel be permitted to attend any class, was adopted by the Senate on Dec. 4, 1958. See appendix 4.

C. *Scholastic attainment.* A policy statement was presented to and adopted by the Senate on January 8, 1959 permitting recognition of high scholastic attainment, as evidenced by grade point averages, on diplomas. See appendix 5.

D. *Honors Programs.* Following several years of study by numerous sub-committees and the EPC, a policy statement was presented to and adopted by the Senate on February 5, 1959, which will permit establishment of "Honors" programs and presentation of honors diplomas to qualified graduating seniors. See appendix 6.

E. *Physical Education.* An interim report of the EPC regarding physical education for veterans was presented to the Senate on February 5, 1959. See appendix 7. An informational report prepared by the Lindstrom sub-committee was presented to the Senate on February 5, 1959. See appendix 8. The sub-committee has presented a second report pertaining to several basic questions on physical education. This report is being studied by the EPC and will be presented to the Senate in the Fall 1959.

F. *Evaluation of General Education.* Two reports of the Swegan sub-committee have been received, discussed and submitted to the Senate Committee on courses of study. See appendix 9 and appendix 10.

G. *Improvement of Instruction.* The first report of the sub-committee on improvement of instruction has been received and reviewed. See appendix 11. The EPC has advised the sub-committee that they will wait receipt of the second report before requesting any Senate action.

H. *Competency in Speaking and Listening.* The report of the sub-committee was received, revised and presented to the Senate on June 3, 1959. The report was accepted and the recommendations were approved.

I. *Long Range Plan.* A study was made of the University's Long Range Plan and a report was submitted to President Walker on March 17, 1959. See appendix 13.

J. *Common Freshmen Year Programs.* An informational report was presented to the Senate on May 7, 1959 regarding consideration of five common freshmen year programs and the problems involved in such a plan. See appendix 14. Comments and suggestions have been required of the Senators. Additional study will be given this problem in the Fall of 1959.

The chairman wishes to acknowledge the very excellent cooperation of each committee member and particularly Mr. G. N. Thiel who served as secretary. Acknowledgement is also made of the excellent contributions of the many sub-committees and their recognition, not only of the problems involved but also of the need to complete their deliberations within reasonable periods of time.

Respectfully submitted,
R. E. Larson
Chairman

Grad school lectures

The opening lecture in the Graduate School Lecture Series for the fall semester will be given on Wednesday, Oct. 7 by The Reverend Gustav J. Weigel, S.J., theologian and professor of ecclesiology, Woodstock College School of Divinity.

He will speak on "Ecumenics: Old and New Word," and the lecture is co-sponsored by the Office of the University Chaplain.

All the lectures in the fall series will be presented in Room 121 Sparks Building, beginning at 8 p.m.

The other lecturers in the series and their topics are as follows:

Dr. Gottfried Haberler, economist, Harvard University, on "Inflation, Recession, and Dollar Surplus," (co-sponsored by the Economics Faculty Seminar) on Tuesday, Oct. 20.

Dr. Luna B. Leopold, engineer, Geological Survey, U. S. Department of the Interior, on "Rivers and Creeks: Their Significance to Man," (co-sponsored by the College of Engineering and Architecture and the College of Mineral Industries) on Tuesday, Oct. 27.

Dr. Donald E. Super, psychologist-educator, Columbia University, on "The Vocational Maturity of Adolescent Boys: Some Psychological Data and Some Education Implications," (co-sponsored by the College of Education) on Thursday, Nov. 19.

Enrollment up slightly

Unofficial enrollment figures at the close of registration on Saturday, September 19, show an increase of 361 at University Park over comparable figures last year and of 481 at all campuses.

Final enrollment statistics will be given at the end of the first two weeks of classes.

Enrollment at University Park as of Sept. 19 was 14,498, compared to 14,137 last year. At centers and campuses in the four-year bachelor's degree programs enrollment is 1,898, compared to 1,628 a year ago, but enrollment in two-year associate degree programs is down 153 at 1,484.

Total enrollment, including Mont Alto is 18,006. Last year, between registration close and the end of two weeks of classes, an addition of 2,444 was noted. A similar increase this year would bring the total to over 20,000.

Schedule films now

Faculty members planning to use films obtained through the Audio Visual Aids Library are urged to schedule now the films for future use, including the second semester. Rental orders from other institutions are now being received, it is pointed out.

In making reservations on a tentative one-week block now, the specific date of use can be determined later. Schedule order blanks can be obtained by calling 5-6314 or by calling at Room 3, Pattee Library, where a complete list of films may also be examined.

Symposium has Mather

The Ninth Annual Drilling Symposium, sponsored jointly by the departments of mining at Colorado School of Mines, University of Minnesota, and Penn State will be held on campus Oct. 8-10, with the theme, "Exploration Drilling."

Among the speakers are Dean E. F. Osborn and Dr. J. D. Ridge, of the College of Mineral Industries. Dr. William G. Mather, head of the department of sociology and anthropology, will be the speaker for the banquet.

Children in theatre arts

Dr. Walter H. Walters, head of the department of theatre arts, is accepting reservations from parents of children between 9 and 11 years of age for a course in "Creative Dramatics with Children," Thea 442, which meets each Wednesday from 3:45 to 4:45 p.m. Reservations will be accepted by mail or phone, UN 5-7652, until Sept. 30, the first day of class.

Artists —

(Continued from page one)

and Jussi Bjoerling, tenor, only 1,987.

The general public need not feel excluded from the Artists Series, the Committee believes, since 20 per cent of the tickets are held back from the initial student sale for purchase by non-students. Tickets remaining after the public sale are made available to students. A charge of only \$1.25 is placed on the public tickets. Last year, only 7 of 14 performances in Schwab Auditorium drew non-students as expected, and in Rec Hall only 514 tickets were sold for the Danish National Orchestra, 237 for Bjoerling, and 706 for the Ballet.

"We do not plan the program with non-students in mind, it is true," says Dr. Condee, "but it cannot be said that the performances given are below adult standards. Many of these same artists command \$4.50 per ticket in New York and other large cities, and get it."

The artists' reactions to Penn State are generally favorable, as far as Dr. Condee has learned. E. E. Cummings admitted that he was pleasantly surprised at the responsiveness of the audience, which reacted more strongly than he had expected. The Pro Musica group also got a warm reception.

"But I suppose we're pleased most by the favorable reactions of the students," says Dr. Condee. "One young man last year coming out of the Pro Musica concert was heard to say,

"I've never been to anything like this before and I never thought I'd go, either. But, you know, I liked it."

The committee hopes the students, as well as non-students, will like this

year's schedule also, which is as follows:

Sept. 27 — Tossy Spivakovsky, violinist, Schwab.

Oct. 3 — Adele Addison, soprano, and Albert Fuller, harpsichord, Schwab.

Oct. 11 — The Goldovsky Grand Opera Theatre, in Verdi's *Rigoletto*, Rec Hall.

Oct. 23 — Leonard Rose, cellist, and Leon Fleisher, pianist, Schwab.

Oct. 31 — Robert Frost, poet, Schwab.

Nov. 8 — Camera Concerti, string and wind orchestra, Schwab.

Nov. 17 — Hal Holbrook, as "Mark Twain Tonight," Schwab.

Nov. 22 — The Pittsburgh Symphony Orchestra, Rec Hall.

Dec. 4, 5 — The Shakespeare Festival Players, Schwab.

Feb. 14 — Chicago Opera Ballet, Rec Hall.

Feb. 23 — The Netherlands Chamber Choir, Schwab.

Mar. 9 — Benno Moiseiwitsch, pianist, Schwab.

Mar. 18 — Cesare Siepi, basso, Schwab.

Mar. 27 — Jose Limon and Dance Co., Rec Hall.

Apr. 26, 27 — Catherine Crozier, organist, Schwab.

May 10 — Anton Kuerti, pianist, Schwab.

Wanted: Violinist

A violinist is needed by a string quartet which has just lost its first violinist by reason of graduation. Dr. Hans Neuberger, violin, Dr. Howard B. Palmer, violist, and Mrs. Barbara Kautz, cellist, at present make up three parts of the quartet, which meets weekly, playing only for its own amusement. A call to Dr. Neuberger, 5-6451, will bring more information.

Calendar

Friday, Sept. 25

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. G. R. Rigby, director of research, Canadian Refractories, Ltd., Quebec, Canada, on "Volume Expansions in Solid State Reactions."

Saturday, Sept. 26

Football, vs. Virginia Military Institute, 1:30 p.m., Beaver Field.
Graduate Student Association square dance, 8:30 p.m., HUB ballroom.

Sunday, Sept. 27

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.
Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. The Rev. Preston N. Williams, acting University chaplain.

Artists Series Program by Tossy Spivakovsky, violinist, 8:30 p.m., Schwab Auditorium.
International Students tea, 3 p.m., Helen Eakin Eisenhower Chapel memorial lounge. Co-sponsored by the University Christian Association and the Cosmopolitan Club. All foreign students and all faculty members are invited.

Monday, Sept. 28

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Charles W. Stoddart, director of physical education extension, on "The Junior Conservation Camp."
Meeting of the faculty, College of Physical Education and Athletics, 7 p.m., Room 241, Recreation Building.

Thursday, Oct. 1

Faculty-Trustee Symposium, sponsored by the AAUP. Dinner at 6:30 p.m. Featured speaker at 3:30 p.m., Dr. Russell I. Thackrey, executive secretary, American Association of Land Grant Colleges and Universities, at 3:30 p.m., Room 119, Osmond.

Next Month

Oct. 3 — Artists Series program by Adele Addison, soprano, and Albert Fuller, harpsichord.

Oct. 7 — Graduate School Lecture by The Reverend Gustav J. Weigel, S.J., Woodstock College.

Oct. 11 — Artists Series program by The Goldovsky Grand Opera Theatre, in Verdi's "Rigoletto."

Oct. 20 — Graduate School Lecture by Dr. Gottfried Haberler, economist at Harvard University.

Oct. 23 — Artists Series program by Rose and Fleisher, cellist and pianist.

Oct. 27 — Graduate School Lecture by Dr. Luna B. Leopold, engineer, Geologic Survey, U.S. Dept. of Interior.

Oct. 31 — Artists Series program by Robert Frost, poet.

faculty BULLETIN

Vol. 47, No. 3

Sept. 25, 1959

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Mairs, Mrs. T. I.
Cent Library

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Directive clarified

A Commonwealth-instituted directive which hereafter will require faculty and staff members to establish beforehand that their employment by State agencies on a part-time basis will not interfere with their University assignment has been clarified by University counsel.

Attorney Roy Wilkinson, Jr. said the Executive Board of the Commonwealth had issued the directive after the question whether fulltime employes of the University may be employed by other State agencies, without prior approval of the Board, was raised by the Auditor General.

The Auditor General looks to this Board, which is composed of the Governor and six administrative heads chosen by him, for guidance in budgetary matters. Among other things, the Board must approve the payment or extra compensation to employes of administrative departments, boards of commissions who are employed at fixed compensation.

"In reply to the question," Attorney Wilkinson pointed out, "the Executive Board formally resolved that employes of the University may, because of their special qualifications and services, be retained additionally as part-time consultants. This represents a blanket approval of such employment insofar as it applies to University personnel.

"In so resolving, however, the Executive Board added that such employment would merit blanket approval 'only where the University initially determines that the additional activity required will not interfere or conflict in any way with the obligations of such

(Continued on page four)

Youngsters aided in summer clinic

"Forty-one sleepy people are awakened by the counselors at 6:30 a.m. each week day. We get dressed, wash our faces, and make our beds before going downstairs for breakfast at 7:15. After breakfast we go back upstairs to brush our teeth and comb our hair. At 8:15 a.m., we walk over to the Speech and Hearing Clinic for classes . . . Each group goes to its respective class. Some have individual therapy while others go to art and speech activities classes. At 11:30 we return to Sigma Nu house where we have practice period until 12:00. Lunch is served at 12:00. After lunch, we practice our speech and get ready for our afternoon classes. At 1:30, we are on our way back to the clinic where we have classes until 3:30. From 3:30 until dinnertime, we participate in games under the supervision of our recreation director. After dinner, we have mail call and we are ready for more fun. Some of our activities include swimming on Tuesdays and Thursdays at Glennland Pool. During the week we go on hikes, play games, dance, watch TV and have parties. Our Saturdays are spent doing various interesting activities. On Sunday, after church, we go to a park to swim, play games, and enjoy a picnic supper. Penn State is a very nice place and we are enjoying our stay here.

THERE, succinctly put, is a broadside on the University's Speech and Hearing Clinic Summer Program, as seen through the eyes of a 15-year-old girl named Carol, from York, Pa.

She was one of 40 girls and boys between the ages of 8 and 18 years who two summers ago came to the main campus to get help for a speech or hearing difficulty. Her experiences were more or less typical of those of the entire group during the six weeks she was on campus.

Carol's speech handicap is articulation, as is that of about a quarter of those in attendance at the 1958 Clinic. Some of the other boys and girls have cleft palates, are cerebral palsy victims, are stutterers or are afflicted with aphasia, or have a hearing loss.

Even with these serious handicaps most of the children are only slightly behind their normal schedule in school. Some have had problems of social adjustment, although all who come here for the summer program must be emotionally or physically mature enough to participate in the rigorous schedule.

Children work hard

"On the surface, it may seem from Carol's description of her typical day that there is a lot of time for recreation in her program," says Dr. Asa J. Berlin, associate professor of speech and hearing, who is in charge of the Summer Clinic. "But these children must work hard. Four to five hours of actual training each day is wearing; I doubt that all adults could stand it.

"These kids seriously want to improve, so they try awfully hard."

The training and practice the youngsters get during the day is considered

only the starting point for their full program. At the fraternity or on picnics or in any one of a number of situations, the youngsters are figuratively "forced" into circumstances they tended to avoid at home. In such manner they learn to accept their problem and try to do something about it.

During the past summer a couple of the youngsters had an experience which well illustrates the point, Dr. Berlin relates. Each year the men attending the Life Insurance Marketing Institute make a gift to the youngsters of the Clinic. This year, for the first time because of the crowded schedule of the Institute, a boy and a girl talked to the men and answered their questions. Both, says Dr. Berlin, handled themselves with complete aplomb and made a deep impression on the men.

Practice expected

"It will do the children little good to go through long hours of training in the Clinic, if they don't practice what they learn," says Dr. Berlin. "And when they return home, they are expected to take up where they left off here. It would be wrong to send these children to special schools and thereby isolate them from the experiences they need."

The children are selected for the Summer Clinic on the basis of age, maturity to handle the situations they'll face, and need for the program. Community organizations sometimes pay the tuition, room, and board, which this year amounted to \$335, but more often the parents are responsible.

Dr. Eugene T. McDonald, head of the Speech and Hearing Clinic, points out that the "need" for the program is not easily defined and only examination by the Clinic staff will determine who shall be admitted and who shall not. Many youngsters, as well as adults, have speech problems arising out of emotional backgrounds, and only trained clinicians can determine the real problem.

"There was the case, a few years ago," Dr. Berlin relates, "of a woman who came to the campus with a youngster, determined to get a hearing aid for him. The question was not whether he should have one, but which type should he get. Our tests showed nothing structurally wrong to require a hearing aid, but he was emotionally upset. The woman, however, went ahead with plans to get the equipment because the community had taken up a collection for the boy and he should have the aid.

"A few months later she was back, storming because the ungrateful

(Continued on next page)

Youngsters —

(Continued from page one)

boy wouldn't wear the hearing aid, so she had given it to another youngster."

Well-meaning but poorly informed persons are a problem to the Clinic staff but fortunately, Dr. McDonald points out, an increasing awareness of the importance of the speech and hearing problem is being demonstrated in Pennsylvania. Of the 67 counties in the State, 59 now have speech correction programs and most of the others have plans for installing programs. Still, there are not enough clinicians and specialists in the field.

"Case-finding," Dr. McDonald says, "is now much better than a decade ago, and financial aid — from private and public sources — has improved also.

"We don't know how many people in the State have speech or hearing defects, partly because this is a matter of definition, but the number must run well over a million, since that is the approximate figure developed in the last census. It is obvious that our educational program is vital if we are going to give help to that many people."

The summer program, it is pointed out, is only one phase of the total effort of the Speech and Hearing Clinic. During the rest of the year the Clinic staff is helping adults and children as well as University students, many of whom did not realize, before they were examined at the Clinic, that their speech or hearing were not up to average standards.

Since the summer program was instituted in 1946, it is estimated, well over 500 youngsters have had training here. For a time, the youngsters were housed in private homes in the area, and then for a number of years in the Beta Theta Pi house on west campus. In the last few years the Sigma Nu house in town has been headquarters.

From 25 Counties

The youngsters this year came from 25 counties of the State and two were from out-of-state (Connecticut and Virginia). Dauphin County sent four, Blair and Cambria three each. In other years also, the distribution would fairly well represent the entire state, Dr. Berlin says.

The Clinic staff in the summer includes, in addition to Dr. Berlin as co-ordinator, 10 clinical supervisors who have regular faculty status, art supervisor, recreational director, a nurse, as well as 30 clinicians, who are students working for academic credit. At the Sigma Nu house, the staff includes the house supervisor, two male counselors, two women counselors, a cook, waiters, and a housekeeper.

What has happened to the youngsters who attended the Clinic in the past?

Esther's case may not be typical, but it is real and inspiring. She came to the summer Clinic in 1953, a cleft palate case. She had previously had surgery and partial prosthesis. She had been referred by the Philipsburg Cleft Palate Clinic, which is a State-organized clinic. In school, Esther had accumulated all A and B grades and never failed a subject. Nevertheless, her speech needed correction.

Her record during the 1953 summer showed steady improvement, but the recommendation was made that she either obtain home therapy, attend another summer clinic, or delay for the future further treatment. She came to Penn State as a freshman and from Sept. 1955 until Jan. 1956 she was again aided by the Clinic.

In June of this year, Esther graduated and is now employed by Chemical Abstracts, of Columbus, Ohio. She was a 2.5 student in Chemistry. Most unusual perhaps, is the fact that in her senior year, branching out in her program, she got an A grade — in elementary Russian!

Perhaps one day Carol will also have a success story to tell as dramatic as Esther's. For a brief six weeks, at least, she had reason to hope that her speech would be improved, and hope, to many of the youngsters, is golden.

Club invites faculty

The Cosmopolitan Club, which serves as a social and cultural organization on campus to promote understanding between foreign students and visitors and their American hosts and colleagues, has extended an invitation to faculty and staff members to participate in the Club's activities.

On Sunday, Oct. 4, the Club will hold a cabin party at the Mineral Industries cabin and all faculty and staff members are invited. For those requiring transportation, cars will leave from behind Old Main between 2 and 3 p.m.

Officers, who may be contacted for more information, are Madan Mohan Singh, John Dombrowski, Mrs. Bozena Stubican, and Mrs. Charlotte Warshaw.

Lecture on religion

Dr. M. Holmes Hartshorne, professor of philosophy and religion at Colgate University will speak on "Religion and Its Intellectual Critics" in the first lecture of the year sponsored by the University Christian Association for faculty members and graduate students on Saturday, Oct. 3, in the lounge of the Helen Eakin Eisenhower Chapel, at 8:30 p.m. The lecture will be followed by discussion and refreshments.

Taft gets ACS award

Dr. Robert W. Taft, Jr., professor of chemistry, has been selected for the 1959 American Chemical Society Award in Petroleum Chemistry.

The award consists of \$1000, a certificate, and a grant to enable the recipient to attend the meetings and formally receive the award, which is sponsored by the Scientific Precision Co. It will be given at the Spring meetings of the society in Cleveland, Ohio.



Dr. Taft

The award was established in 1948 to recognize, encourage, and stimulate outstanding research achievements in the field of petroleum chemistry in the United States and Canada. The award was made to Dr. Taft in recognition of his work in physical organic chemistry.

A member of the faculty since 1950, Dr. Taft was awarded a Guggenheim Fellowship last year for study during the fall semester at Harvard University. From 1956-58 he held an Alfred P. Sloan Foundation fellowship in support of research here.

Dr. Taft is the second faculty member to receive the award. In 1952, Dr. Robert W. Schiessler, who resigned in 1955 to become director of the research division of Socony Mobil Laboratories, was given the award for his work leading to the production of better lubricating oils.

Faculty invited

Male faculty members interested in getting some exercise and enjoying the competition of badminton, squash, paddleball, and similar activities are invited to the classes in Recreation Building every Tuesday and Thursday from 1 p.m. to 3 p.m. Additional information may be obtained by calling S. P. Fogg, 5-7202.

An invitation has been extended to the women of the faculty by the College of Physical Education and Athletics to take part in recreational activities at White Building. Opportunities will be provided for instruction and practice in bowling, badminton, swimming, exercises, and others in which an interest is expressed.

A meeting will be held for those desiring to participate in this program on Friday, Oct. 9 at 5:15 p.m. in main lounge of White Building. Persons unable to attend should contact Miss Joan Nessler, 5-2942, Room 111 White Building.

Items of Interest

• Articles and Papers

E. J. Nichols, English, an article, "The Military Record of General John F. Reynolds," in the July issue, *Journal of the Lancaster County Historical Society*.

J. M. Morse, English, an article, "The Artist as Savior" in the *Modern Fiction Studies*, and "Molly Bloom Revisited" in a James Joyce Miscellany, published by Southern Illinois University Press.

Jerry Stannard, philosophy, an article, "The Role of Categories in Historical Explanation" in the *Journal of Philosophy*, and "Philosophy and Liberal Education" in the *Journal of Education*, Birla Educational Trust, Pilani, India.

R. M. Barnoff, civil engineering, a paper at the national convention of the American Society of Civil Engineers, Oct. 18-23, on the effect of floor systems on pony truss bridges.

G. R. Smith, English, an article "Brutus, Virtue, and Will" in the summer issue, *The Shakespeare Quarterly*.

Stanley Weintraub, English, an article "The Metamorphosis of The Shaw Review," published in *Modern Drama* and reprinted in the Newsletter of the Shaw Society of Chicago.

M. A. Mook, anthropology, a paper on "Friendly Folklore — By and About Quakers," at the annual meeting of the American Folklore Society in Albany, on Aug. 29.

• Elected or Appointed

Joseph Marin, engineering mechanics, invited to become a member of a group advisory to the National Academy of Sciences and National Research Council to review for National Science Foundation fellowships.

Roland Hicks, journalism, elected to a one-year term on the Advertising Council of the Association for Education in Journalism.

Players schedule

Paul Osborn's story of a little boy and his grandfather, "On Borrowed Time," will open the Penn State Players' 1959-60 season at Center Stage on Oct. 16 and 17.

The complete schedule for the year lists three other plays at Center Stage and two plays and a musical or light comedy, as yet unannounced, in Schwab Auditorium.

Plays at Center Stage are given Friday and Saturday for a number of weekends and those in Schwab for three nights. "On Borrowed Time" will be presented also on Oct. 23 and 24, Oct. 30 and 31, Nov. 6, 7, 13, 14, 20 and 21.

Seats are not reserved in Center Stage, where prices are \$1 on Friday

and \$1.25 on Saturday. At Schwab Auditorium, seats are reserved and prices are as follows: Thursday, \$.75; Friday, \$1.25; Saturday, \$1.50. Tickets go on sale at the main desk at the Hetzel Union Building on Monday before a Thursday, Friday and Saturday production is scheduled. They will also be sold at the door, if not sold out.

The schedule for 1959-60 is as follows: "On Borrowed Time," by Paul Osborn, Center Stage, weekends, Oct. 16 to Nov. 21.

"Dark of the Moon," by Howard Richardson and William Berney, Schwab Auditorium, Nov. 5, 6, and 7.

"John Gabriel Borkman," by Henrik Ibsen, Center Stage, Dec. 4, 5, 11 and 12, and Jan. 8, 9, 15, and 16.

"An Italian Straw Hat," by Eugene Labiche and Marc-Michel, Center Stage, weekends, Feb. 19 to Mar. 26.

"Detective Story," by Sidney Kingsley, Schwab, Mar. 3, 4, 5.

"The Dark at the Top of the Stairs," by William Inge, Center Stage, weekends, April 1 to May 14.

A musical or light comedy, Schwab, May 5, 6, and 7.

Lecture by Hacker

Dr. Louis M. Hacker, distinguished visiting professor of history and professor of economic history at Columbia University, will initiate the 1959 Liberal Arts Lecture Series on Wednesday, Oct. 14 at 8 p.m. in Room 121 Sparks.

He will speak on "The Robber Barons Revisited" in a lecture co-sponsored by the department of history.

Committee change

President Walker has approved the addition of two staff offices to membership on the Administrative Committee on Student Affairs. They are the Dean of Student Affairs for Commonwealth Campuses, a post now held by Merle E. Campbell, and the Director of Student Affairs Research, now Dr. Martin L. Zeigler.

The chairman of this committee is now officially the special assistant to the President for Student Affairs.

Telecast on advertising

H. Eugene Goodwin, director of the School of Journalism, will be the host and Dr. James W. Markham, professor, and D. James Lenahan, graduate student will be the guests on the telecast next week of the "Penn State: Its Men and Ideas" program Monday, Wednesday, and Friday at 9:50 a.m. The theme of the 13-week series is "Are the Mass Media Mediocre?" and the topic for the week is advertising and its effect on newspapers and magazines.

Personnel matters

Eunice M. Deemer, assistant professor at Douglass College, New Brunswick, N.J., has been named instructor of clothing and textiles. A graduate of Indiana State Teachers College, she obtained her master of education degree at Penn State in 1950. She has taught previously in secondary schools and at Cornell University and the University of Hawaii.

* * *

George N. Demshock, a 1951 graduate of the University with a master of education degree, has been named administrative assistant to the head of the Teacher Placement Division. He comes from Slippery Rock State Teachers College, where he was business manager.

* * *

Dr. Gerald M. Moser, assistant professor of Romance languages, will travel and do research in Spain and Portugal while on leave of absence from February until June, 1960. In Spain he will study the influence of *Institucion Libre* on contemporary writers. In Portugal, he will study the critical works in literature on Portuguese imperialism.

* * *

Dr. Lois B. Hyslop, associate professor of Romance languages, has been granted a leave of absence for the fall semester to continue her research on the 19th-century French writer, Charles Baudelaire. She will consult libraries in New York and Philadelphia. She and her husband, Francis E. Hyslop, Jr., have collaborated on two books on Baudelaire and next summer plan to do research in Europe.

* * *

Dr. H. C. Fink, associate professor of plant pathology, has resigned to accept a position in the Agricultural Research Department, Monsanto Chemical Co., at St. Louis, Mo.

Examinations listed

The next Medical College Admissions Test will be given at Penn State on Saturday, October 31, 1959 from 8:00 A.M. to 12:45 P.M. Bulletins of Information and Application Blanks are available from Dr. Leon R. Kneebone, Test Supervisor, in Room 117 Buckhout Lab. Applications accompanied by the \$15 fee must be received by Educational Testing Service, 20 Nassau St., Princeton, N.J. no later than October 17, 1959.

The next Graduate Record Examination will be held at Penn State on Saturday, November 21, 1959 at 8:30 A.M. and 1:45 P.M. Bulletins of Information and Application Blanks are available from the same office. Applications must be received at E.T.S. no later than November 7, 1959.

Directive Clarified —

(Continued from page one)

individual toward his regular employment'."

This requirement, Wilkinson observed, does not apply to the University alone. It has been required for years of every instrumentality and agency of the Commonwealth.

Blanket application of this requirement to the University made it necessary, Wilkinson explained, to set up machinery whereby letters could be issued to faculty and staff members whose services were sought on a part-time basis by State agencies.

Moreover, he continued, the very nature of the operation dictated that this function be vested in one office, preferably that of the President. It was decided, therefore, to channel the required information to the President through the interested party's dean or administrator.

"There has been no change in the University's attitude toward part-time employment of this nature," University counsel said. "On the contrary, this machinery was devised solely to comply with the Executive Board's directive. It obviously does not apply to employment by non-Commonwealth agencies and its only purpose, in truth, is to facilitate the means whereby a University employe may qualify for such extra employment by State agencies."

Ceiga concert Sunday

George E. Ceiga, University organist, will present an organ recital at 4 p.m. on Sunday, Oct. 4 in Schwab Auditorium. The program will include selections from Sweelinck, Bach, Brahms, Milhaud, Flor Peeters, Jean Langlais, Maurice Whitney, and Sowerby.

Packard in college

Vance Packard, Penn State graduate and author of the best-sellers, "The Hidden Persuaders" and "The Status Seekers," will be one of five lecturers for the Fall Session of the Alumni College, Oct. 29 to 31.

The College was established last spring to provide a program of continuing liberal education for Penn State graduates. Local alumni who wish to attend the sessions in October are advised to write to F. Wally Lester, Continuing Education Conference Center, on campus. Registration fee is \$25, which includes tuition, books, and meals.

The October session of the College has as its theme, "American Civilization: The Pursuit of Values."

In addition to Packard, the lecturers will be Hugo Weisgall, distinguished visiting professor of music who is widely known as a composer and conductor; Jean Erdmann, modern dance director and teacher; Eugene Goodwin, director of the School of Journalism; Winona L. Morgan, head of the department of child development and family relations.

Next Month

Oct. 11 — Artists Series program by The Goldovsky Grand Opera Theatre, in Verdi's "Rigoletto."

Oct. 14 — Liberal Arts Lecture by Dr. Louis M. Hacker, distinguished visiting professor of history.

Oct. 15-17 — Thespian production of musical, "It's in the Book."

Oct. 20 — Graduate School Lecture by Dr. Gottfried Haberler, economist at Harvard University.

Oct. 23 — Artists Series program by Rose and Fleisher, cellist and pianist.

Oct. 27 — Graduate School Lecture by Dr. Luna B. Leopold, engineer, Geologic Survey, U.S. Dept. of Interior.

Oct. 31 — Artists Series program by Robert Frost, poet.

Calendar

Friday, Oct. 2

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium, Dr. John D. Ridge, head of the department of mineral economics, on "The Unusual Manganese Deposits of Langban, Sweden."

Graduate mixer, 9 p.m., HUB ballroom.

Saturday, Oct. 3

Football, Penn State versus Colgate, 1:30 p.m., Beaver Field.

Soccer, versus West Chester, 10 a.m.

Cross country, versus Cornell, 1 p.m.

Artists Series program by Adele Addison, soprano, and Albert Fuller, harpsichord, Schwab Auditorium, 8:30 p.m.

Lecture by Dr. M. Holmes Hartshorne professor of philosophy and religion Colgate University, on "Religion and Its Intellectual Critics," 8:30 p.m., Helen Eakin Eisenhower Chapel. Sponsored by the University Christian Association for faculty and graduate students.

Sunday, Oct. 4

Protestant Service of Worship 9 a.m., Helen Eakin Eisenhower Chapel. Donald McIlvride.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. M. Holmes Hartshorne, professor of religion, Colgate University.

Organ recital by George E. Ceiga, University organist, 4 p.m., Schwab Auditorium.

Cosmopolitan Club cabin party at Mineral Industries camp. Cars leave from 2 to 3 p.m. behind Old Main.

Monday, Oct. 5

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Charles M. Long, head of the department of elementary education, on "Customs in South America."

Tuesday, Oct. 6

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. Bernard Cohen, Sarah Mellon Chalse Radiation Laboratory, University of Pittsburgh, on "Nuclear Structure Studies with (D,P) and (D,T) Reactions."

Wednesday, Oct. 7

Graduate School Lecture by The Rev. Gustav J. Weigel, S.J., on "Ecumenics: Old and New Word," 8 p.m., Room 121, Sparks. Co-sponsored by the Office of University Chaplain.

Opening of exhibit of "Photographs of Angkor Wat," the monuments in Cambodia, as photographed by Loke Wan Tho. HUB Art Gallery.

Thursday, Oct. 8

Meeting of the faculty of the College of the Liberal Arts, 4:15 p.m., Room 121, Sparks.

Friday, Oct. 9

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Irving Wender, chief, organic chemistry section, U.S. Bureau of Mines, on "Some Organic Chemical Aspects of Coal Research."

faculty BULLETIN

Vol. 47, No. 4

Oct. 2, 1959

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Penn State Collection,
Pattee Library.

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Personnel matters

Dr. Jeannette Veatch, who has held teaching posts at New York University and has taught in summer programs at Penn State, Illinois, Indiana, Syracuse, Goucher, and Wisconsin, has been named associate professor of elementary education. A graduate of Western Michigan University, she completed work for master of arts and doctor of philosophy degrees at N.Y.U. She has worked on a study of tax supported adult education in New York and conducted a sampling of adolescent girls with the University of Michigan Survey Research Center.

* * *

Dr. Carl J. Schaefer, for the past four years with the Department of Education of the State of Ohio, has been named associate professor of industrial education. He obtained all three degrees from Ohio State University, has taught in the public schools of Sandusky, Ohio, and served as consultant for instructional materials development at Ohio State University. Since 1955 he has been assistant superintendent in trade and industrial education for the Ohio Department of Education.

* * *

A. Jay Hirsch, graduate of Penn State with a master's degree in accounting, has been named lecturer in accounting. He has been a graduate scholar at the University of Illinois and has served as an accountant with two Philadelphia accounting firms.

* * *

Dr. James R. Nichols, associate professor of dairying at the University of Tennessee, has been named associate professor of dairy science. Graduated

(Continued on page four)

Hacker talks Oct. 14

Dr. Louis M. Hacker, visiting professor of history, will open the 1959 Liberal Arts Lecture Series at 8 p.m. on Wednesday, Oct. 14, in Room 121 Sparks Building.

He will speak on "The Robber Barons Revisited," in a lecture co-sponsored by the department of history.

Since 1935, Hacker has been a member of the economics department at Columbia University. He is a graduate of Columbia and received his master's degree there also. Oxford University granted him a master of arts degree in 1948 and the University of Hawaii gave him an honorary doctor of laws degree in 1953.

Between 1948 and 1958, Hacker was director and dean of the School of General Studies at Columbia. He has also been on the staff of the New School, taught at Oxford and at Cambridge, was on the staff of the Army War College and the National War College, and has been a summer lecturer at the University of Wisconsin, Ohio State University, Utah State College, and the University of Hawaii.

Author of 11 books, including "Triumph of American Capitalism" and "Shaping of the American Tradition," Hacker is also assistant editor of the New International Encyclopedia and the Encyclopedia of Social Sciences.

His most recent book, "American Capitalism," has been translated into at least a dozen languages by the United States Information Agency for distribution overseas.

Students pledge high

A total of 6,951 students contributed during registration for the fall semester to their respective class gifts, their contributions adding up to \$7,114.65, the Alumni Fund Office reports.

This is the first time in recent years that class gift money was obtained directly from the students while they were still in school: previously, class gift money was derived from the residue of damage deposits collected from all students as part of their fees.

The Class of 1959 last spring conducted a personal campaign in conjunction with the Alumni Association's membership drive and collected \$636.51 from 544 students. This amount was matched three-for-one by President Walker, for a total \$2,552.04. The Class voted to contribute this money for a collection of books by contemporary American writers for the Pattee Library.

This fall a table was set up at registration to collect money or pledges from students in the '60, '61, and '62 classes. Each student was given a pledge card with his registration materials. In addition to the cash collected, a total of 567 students pledged to pay \$723 later.

Each of the classes will decide shortly before graduation what its class gift will be. Since collections will be made during every fall registration, each student will have been asked to contribute a minimum of \$4 toward his class gift. The contributions are completely voluntary, however.

Faculty-trustee symposium



The ballroom of the Hetzel Union Building was crowded for the Faculty-Trustee Symposium, sponsored by the local chapter of the American Association of University Professors, last week. Speakers at the dinner included trustees Ralph Hetzel and H. Thomas Hallowell, Jr., and for the faculty, Robert Scholten and A. Bruce Sutherland.

Senate Minutes

Minutes of the Meeting of
September 24, 1959

The University Senate met at 4:15 p.m. on Thursday, September 24, 1959 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the June 3 meeting were approved as printed in the Faculty Bulletin for June 12, 1959. 189 senators signed the roll. President Walker called on the deans of the College to introduce the new senators.

Communications from University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: Mary L. Dodds (Myrtle Swanson), D. H. McKinley (W. M. Hechen), R. M. Colwell (Ted Rabun), J. A. Dixon (Maurice Snamma), G. W. Brindley (W. O. Williamson), I. Michelson (B. W. McCormick, Jr.), E. R. Queer (F. A. Joy), J. L. Gobble (J. H. Ziegler), R. C. Miller (G. W. Sherritt), W. P. Campbell (W. G. Noyes), G. K. Gillan (C. G. Reen), A. J. G. Maw (P. H. Margott), J. B. Wasnko (A. C. Riecher), H. B. Sprague (C. D. Jeffries), W. H. Wilson (L. T. Karos), H. L. Hartman (Robert Stefanko), and P. W. Fletcher (W. E. White).

Changes in Senate Membership

A letter from J. A. Sauer, of the College of Chemistry and Physics, informing the Senate that R. G. Stoner will serve as acting head of the Department of Physics for the year 1959-60.

From A. W. VanderMeer, of the College of Education, informing the Senate that N. C. Pendered had been elected to fill the vacancy created by the sabbatical leave of George Guthrie for 1959-60 and H. F. Hoffman to serve during the Fall Semester, 1959 for K. R. Beittel.

From Grace M. Henderson, of the College of Home Economics, that Eva Wilson will serve as head of the Department of Foods and Nutrition while Miriam Lowenberg is on leave, and Gilma Olson will replace Mrs. Wilson as an elected senator for the Fall Semester, 1959.

From President Walker the following:

The following actions have been recommended to me by the Council of Academic Deans. Through this letter I am informing the Senate that I have approved the recommendations and am authorizing the proper officers and agencies of the University to put them into effect on the dates noted.

1. Effective July 1, 1960, undergraduate students shall be admitted to the University through the Colleges or the Division of Counseling, instead of through curricula. (Note: I am changing the effective date of this recommendation to be "effective for the fall semester of 1960.")

2. Effective July 1, 1960, the Deans of the Colleges are authorized to establish inter-college "common year" programs for freshmen and sophomores wherever possible.

3. Effective at once, each College may furnish academic advisors to the Division of Counseling for students enrolled in the Division of Counseling.

The Committee on Admissions can be helpful in working out the details of item No. 1.

The Committee on Courses of Study should give attention to item No. 2 as courses are presented for consideration.

From K. L. Holderman, Coordinator of Commonwealth Campuses, the following:

Formal establishment of the Commonwealth Campus system under which uniform academic policies will apply at all Campuses raises important questions concerning adequate representation in the University Senate of all interests of the Commonwealth Campuses.

Action has already been taken through the Senate Committee on Faculty Affairs and the Council of Academic Deans to provide faculty members at all campuses the possibility of participation in the election of senators from the several Colleges.

I should like to request the Senate—possibly through its Rules Committee—to consider the possibility of extending membership to the Directors of the Commonwealth Campuses. Since the Directors have broad responsibility for all interests of the University on their respective campuses—including academic responsibility—it would seem to be in the best interest of the University if they held membership in the Senate.

Since the duties of the Directors in the future will call for periodic meetings at University Park, these could be coordinated with regular Senate meetings thus enabling Directors to be present at all meetings should they hold membership. In addition some of those at campuses fairly close to University Park would find it possible to

participate in Senate Committee work, if appointed.

In the interest of good communications and in integrating the programs of the Commonwealth Campuses with the over-all educational objectives of the University, I respectfully request that this matter be given consideration.

President Walker referred this communication to the Senate Committee on Rules.

From L. H. Julius, SGA President, a list of the student members on Senate Committees for the academic year 1959-60 as follows: Senate Committee on Calendar and Class Schedule, Art Miltenberger, and Dottie Newman; Senate Committee on Student Affairs, Leonard Julius, SGA President, Larry Byers, SGA Vice President, Jessie Janjigian, WSGA President; Senate Committee on Student Affairs Subcommittee on Organization Control, Ellen Butterworth and Larry Buck.

From R. G. Bernreuter, Secretary to Senate:

At its meeting on October 2, 1958, the Senate extended an invitation to all student members of all Senate standing committees and subcommittees to attend the meetings of the Senate during the academic year 1959-60. This invitation included the privilege of the floor but not the right to vote. Does the Senate wish to extend the same privileges to the same members for the academic year 1959-60?

The President stated this would be discussed under new business.

From D. V. Josephson, Chairman, Senate Committee on Committees, a recommendation that R. B. Hewes serve on the Senate Committee on Extension Policy while D. C. Jones is on sabbatical leave September 1, 1959 to March 1, 1960. This recommendation had the approval of President Walker.

Reports of Standing Committees

W. G. Mather, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A." He moved adoption of Section One. The motion was seconded and passed. He then moved the adoption of Section Two which contained three new curriculums in the College of Education. The motion was seconded and passed. The report is on file in the office of the secretary.

Mr. Mather announced that a revised edition of the "Standard Practices" of the Senate Committee on Courses of Study would be distributed on Monday and asked the senators to read this report so that future material sent to the Committee will be in proper order.

Joseph Marin, Chairman of the SENATE COMMITTEE ON RESEARCH POLICY, presented the report which had been distributed at the meeting. This report contained the following recommendations:

1. Staff members in all the professorial ranks on the main campus are expected to engage in research or other scholarly activity as part of their University duties. Time for this purpose should be allocated by the department head or scheduling committee in accordance with the demands of the total departmental program. A minimum of one-fourth time is recommended.

2. It is proposed that the responsibility for implementing this policy rest primarily with the Department Head or Chairman with the support of the Dean of each College.

Mr. Marin asked that this report be received by the Senate and that members send all comments and suggestions to him as chairman of the Committee. There were a few questions and answers on this report which will be placed on the agenda for the November meeting.

New Business

Monroe Newman, Chairman of the SENATE COMMITTEE ON STUDENT AFFAIRS, asked for unanimous consent of the Senate to act on the letter received from Mr. Bernreuter regarding the attendance of student members of Senate Committees at Senate meetings. This consent being granted Mr. Newman moved

That an invitation be extended to the student members of all Senate standing committees and subcommittees to attend meetings of the Senate, it being understood that this invitation includes the privilege of the floor but does not imply the right to vote.

The motion was seconded. R. T. Oliver, the parliamentarian, stated that this motion would require a change in the Constitution and therefore could not be acted upon at this meeting. Mr. Newman then changed his motion to read:

That an invitation be extended to the student members of all Senate standing committees and subcommittees to attend meetings of the Senate during this academic year, it being understood that this invitation includes the privilege of the floor but does not imply the right to vote.

The motion was seconded and passed.

Comments and Recommendations for the Good of the University

President Walker mentioned the misunder-

standing among faculty members regarding his recent communication pertaining to extra compensation for services rendered to other agencies or departments of the Commonwealth. He stated that a statement would be released shortly which would clarify this information.

President Walker mentioned the meeting of the Student Encampment which had been held at Mont Alto and commented on the "educational trend" which the students discussed, among which were examinations for seniors, comprehensive examinations to be required for all baccalaureate degrees, semester averages be posted for all students, honors programs be established, credit given by examination, class attendance be based on past academic achievement, student organizations to establish scholarships, delays at the beginning of the term, and repetition of high school work.

E. B. VanOrmer announced the deadline for applications for two NSF Faculty Fellowship Programs as October 5, 1959 in Washington, D. C. A few application packets are available from Mrs. Johnson at the Graduate School Office, 104 Willard Building.

He also urged the senators to encourage eligible seniors and graduate students to apply for NSF Cooperative Graduate Fellowships for 1960-61. Applications are due in the office of the Graduate School on November 6, 1959 or in the graduate dean's office of the student's choice.

Applications for NSF Summer Fellowships for Former Teaching Assistants are due in the office of the Graduate School on December 11, 1959. A student can apply for a summer fellowship for 1960 and for a Cooperative one to start in September 1960 and run for 12 months.

The next regular meeting of the Senate will be on November 5. The agenda will be distributed on October 22, 1959. The meeting adjourned at 5:12 p.m.

Robert G. Bernreuter
Secretary

Directory information

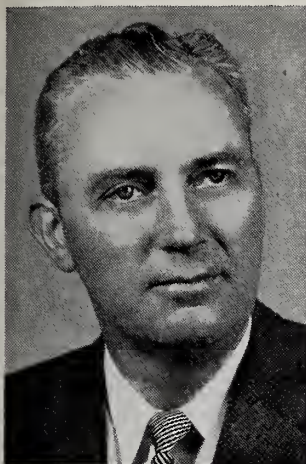
Faculty and staff members are reminded that any changes in the information in the new telephone directories distributed last week should be reported immediately, rather than at such time a new directory is planned.

Wilbur F. Diehl, manager of telephones (318 Old Main, Ext. 5-5411) points out that this information is made available to University operators who assist long distance callers and others in many ways, and make use of the information constantly. Changes in directory information should be indicated on the official directory cards, available through departmental offices or through Diehl.

Both student and faculty directories were distributed last week. Faculty directories were distributed to departments on the basis of one directory for each phone and student directories on the basis of one for each department. Departments desiring additional copies of faculty directories should use an interdepartmental transfer form. Individuals may purchase additional copies at 50 cents each from the HUB Book Exchange and at local stores.

Swimming for faculty

Faculty members may enjoy recreational swimming each Monday evening from 7 to 9:30 p.m. at the Glennland Pool, the College of Physical Education and Athletics has announced. Tickets, at \$2.50 per semester, may be obtained at the Bursar's Office in Willard Building.



E. F. Osborn



O. F. Tuttle



M. A. Farrell

Osborn named vice president

Dr. E. F. Osborn, dean of the College of Mineral Industries has been named vice-president for research, effective Nov. 1, succeeding Dr. M. A. Farrell, who has held the post for the past two years.

Dr. Farrell will continue as director of the Agricultural Experiment Station and Dr. O. Frank Tuttle, professor of geochemistry and chairman of the division of earth sciences, will take over as dean of the College of Mineral Industries.

In recognition of his service and his contribution to the research program of the University, Dr. Farrell was officially commended by the Board of Trustees in a resolution adopted last weekend.

Dean Osborn came to Penn State in 1946 as professor of geochemistry and chairman of the division of earth sciences. In 1952 he was named associate

dean of the College of Mineral Industries and a year later was named dean. He is a graduate of DePauw University and received advanced degrees from Northwestern University and California Institute of Technology.

Dr. Tuttle came to Penn State in 1953 to succeed Dr. Osborn as chairman of the division of earth sciences. He received both his bachelor's and master's degrees from Penn State and his doctorate from Massachusetts Institute of Technology.

Also a graduate of the University, Dr. Farrell earned his master's degree at Lehigh University and doctorate at Yale University. He came here as instructor in bacteriology in 1934, was named head of the department in 1940, and assistant director of the Agricultural Experiment Station in 1947, acting director in 1951, and director in 1952.

UCA series begins

Dr. Roger L. Shinn, professor of Christian ethics, Union Theological Seminary, will be the first lecturer in a series sponsored for the faculty, staff, and graduate student by the University Christian Association on Saturday, Oct. 17, at 8:30 p.m. in the lounge of the Helen Eakin Eisenhower Chapel.

The Series will present lectures on basic Christian theology. Dr. Shinn's topic will be "The Nature and Destiny of Man."

Language examination

The regular written Foreign Language Examinations will be held on Monday, November 2, at 7 p.m.; those in German in 10 Sparks, in French and Spanish in 110 Electrical Engineering, and those in English in 205 Sparks. The conflict examination will be held on Tuesday, November 3, at 7 p.m. in 12 Sparks.

Johnson at seminar

Dr. John C. Johnson, new director of the Ordnance Research Laboratory, will be the speaker for the Fluid Mechanics Seminar on Friday, Oct. 16 at 4:15 p.m. in Room 102 Sackett Building. He will speak on "Acoustic Aspects of Boundary Layer Flow."

Thespians

The Penn State Thespians will present an original musical show, "It's in the Book," Thursday, Friday, and Saturday, Oct. 15-17 in Schwab Auditorium at 8 p.m.

Tickets go on sale for the show on Monday, Oct. 12 at 1:30 p.m. at the main desk in the Hetzel Union Building, priced at \$1.25 for Thursday and \$1.50 for Friday and Saturday.

Music and skits for the show are by Ivan Ladinsky and Ray Fortunato and orchestrations by Frank F. Morris.

Items of Interest

• Elected or Appointed

M. E. John, agricultural economics and rural sociology, president-elect, and J. H. Copp, rural sociology, elected secretary-treasurer, of the Rural Sociological Society of America.

G. U. Oppel, engineering mechanics, part-time consultant to the Structures and Mechanics Laboratory, Development Operations Division, Army Ballistic Missile Agency.

M. W. Schein, animal behavior, elected secretary of the animal behavior and sociobiology section of the American Ecological Society of America and the American Society of Zoologists.

• Articles and Papers

W. R. Byrnes, Forestry, a paper on "Vegetation Management on Utility Rights-of-Way," at the Ninth International Botanical Congress at Montreal.

D. W. Bleznick, Romance languages, a paper on "Epistolography in 16th Century Spain" at the Ninth Annual Mountain Interstate Foreign Language Conference, Oct. 9, at West Virginia University.

• Lectures and Talks

S. E. Thompson, hotel and institution administration, a speech on "Food Service Goes To College," before the National Industrial Cafeteria Managers Association at Colorado Springs, Colo.

B. W. Niebel, industrial engineering, a talk on "Memomotion Studies" at Williamsport.

Marjorie East, home economics education, the main speech at a dinner meeting of the faculty members in home economics in three New England States on Oct. 16, on the subject, "New Directions for College Home Economics."

H. J. O'Brien, Liberal Arts, a talk before the Industrial Management Club of Harrisburg, on "Communication in Industry."

• Books

R. L. Weber, physics, a chapter on heat for the new book, "Advanced Undergraduate Experiments in Physics," published by the American Association of Physics Teachers.

Maple room resumes

Food service in the Home Economics Maple Room and Cafeteria has been resumed for the year by students in hotel and institution administration. Lunch is served Tuesday through Friday from 11:50 a.m. to 12:30 p.m. Dinner, tea room style, is served on Tuesday, Wednesday, and Thursday from 5:30 p.m. to 6:30 p.m.

Personnel matters

(Continued from page one)

from the University of Tennessee, he was granted master of science and doctor of philosophy degrees by the University of Minnesota. He has served as an assistant county agent in Tennessee as well as instructor and assistant professor at the University of Tennessee and research assistant at the University of Minnesota.

* * *

Dr. M. Hikmet Binark, who was professor of mechanical engineering at the Technical University, Istanbul, Turkey, has joined the staff as research associate in mechanical engineering. He will direct a five-year research project on air cleaning problems. A native of Turkey, where he also received his primary education, Dr. Binark completed his collegiate work at the Technische Hochschule, in Germany.

* * *

Dr. Alex J. Slivinske, who joined the staff in 1954 and has been associate professor of psychology since 1958, has resigned to join the staff of HRB-Singer, Inc., in State College, as consultant in human engineering.

* * *

Dr. Douglas G. Schultz has resigned as associate professor of psychology and research associate in student affairs, to accept a position at Wayne, Pa. as research associate with Applied Psychological Services.

* * *

Dr. Robert E. McDermott, on the faculty of the University of Missouri since 1952, has been named professor of forestry and head of the department of forest management. He obtained the bachelor of science degree in forestry

and master of science degree in botany from Iowa State College and the doctor of philosophy degree from Duke University. He has also taught at Iowa State University and Duke.

* * *

Dr. Elizabeth M. Ray, a graduate of the University of Maine, with a doctor's degree from Cornell University, has been named associate professor of home economics education. She has taught in schools in Maine and for three years was assistant professor of home economics education at the University of Idaho.

Rigoletto on Sunday

Tickets are available at the main desk of the Hetzel Union Building for the performance of Verdi's "Rigoletto" by the Goldovsky Grand Opera Theatre on Sunday, Oct. 11 at 8 p.m. in Recreation Building. Sale of tickets to non-students will continue through Saturday.

Leading roles in Rigoletto will be sung by Ronald Holgate (Rigoletto), Jean Deis (Duke of Mantua) and Jacqueline Bazinet (Rigoletto's daughter).

The company has produced 30 operas in Boston and on four national tours has offered 174 performances of four operas in the leading cities of 30 states.

Next Month

Oct. 20 — Graduate School Lecture by Dr. Gottfried Haberler, economist at Harvard University.

Oct. 23 — Artists Series program by Rose and Fleisher, cellist and pianist.

Oct. 27 — Graduate School Lecture by Dr. Luna B. Leopold, engineer, Geologic Survey, U.S. Dept. of Interior.

Oct. 31 — Artists Series program by Robert Frost, poet.

Nov. 5-7—Players production of "Dark of the Moon."

Nov. 8—Artists Series production of "Camera Concerti," string and wind orchestra.

Calendar

Saturday, Oct. 10

Cross country, Penn State versus Pittsburgh, 1 p.m.

Sunday, Oct. 11

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel, Rev. Donald McIlvride.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Joseph Barth, minister, King's Chapel, Cambridge, Mass.

Artists Series production of "Rigoletto" by Verdi, by the Goldovsky Grand Opera Theatre, 8:30 p.m., Recreation Building.

Monday, Oct. 12

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Albert E. Diem, vice-president for business administration, on "Observations of a Newcomer."

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A." Dr. G. U. Oppel, professor of engineering mechanics, on "Photoelastic Stress Analysis in the Conquest of Outer Space."

Tuesday, Oct. 13

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. James E. Leiss, high energy radiation section, National Bureau of Standards, on "Nuclear Matter Distributions as determined by Coherent Neutral Meson Photo Production."

Economics Faculty Seminar, 12 noon, dining room "A," Hetzel Union Building. William H. Martin, associate professor of economics, on "Chlorine Alkali Industry in the U.S.: A study in Structural Stability."

Wednesday, Oct. 14

Forestry Convocation, 11 a.m., Room 121 Sparks. William B. Cummings, Firestone Plantations Co., Liberia, in an illustrated lecture on his experiences during the past eight years in Liberia.

Thursday, Oct. 15

Thespians' Show, "It's in the Book," 8 p.m., Schwab Auditorium.

Mathematics Colloquium, 3:15 p.m., Room 12 Sparks. D. H. Husemoller, assistant professor of mathematics, on "Ramified Coverings of Riemann Surfaces."

Friday, Oct. 16

Players Production of Paul Osborn's "On Borrowed Time," Center Stage, 8 p.m.

Faculty meeting College of Agriculture, 4:15 p.m., Room 190 Armsby.

Thespians' Show, "It's in the Book," 8 p.m., Schwab Auditorium.

Fluid Mechanics Seminar, Oct. 16, 4:15 p.m., Room 102 Sackett Building. Dr. John C. Johnson, director of the Ordnance Research Laboratory, on "Acoustic Aspects of Boundary Layer Flow."

faculty BULLETIN

Vol. 47, No. 5

Oct. 9, 1959

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Arthur F. Davis,
229 Rec Hall,

faculty BULLETIN

Weekly Publication
of the University of Pennsylvania
at the University

Personnel matters

Dr. Robert E. Gibbs, veterinarian, formerly with Whitmoyer Laboratories, has been named to the extension veterinary science staff, as associate professor. He did his bachelor's degree work in pre-veterinary at Franklin and Marshall and obtained the doctor of veterinary medicine degree from the University of Pennsylvania. He was at the University of Maryland for eight years prior to becoming associated with Whitmoyer Labs.

* * *

Dr. Harry A. Atwater, who has served on the faculty of the University of Oregon for the past three years, has been named associate professor of electrical engineering. A graduate of Tufts College with advanced degrees from Harvard and from Boston U., he has held research posts with the Air Force Cambridge Research Center, Sylvania Electric Products, Inc., and was a teaching fellow at Harvard before going to Oregon.

* * *

Dr. R. L. Hicks, associate professor of journalism, has been named to head the major of advertising in the School of Journalism. Recent Trustee action discontinued the departments of advertising and of news and editorial journalism. Donald W. Davis, who died June 29, headed the department of advertising.

* * *

Francis R. Nitchie, Jr., associate professor of engineering research at the Ordnance Research Laboratory, will take part in the projected Space Telescope Program of the Smithsonian Institute during a nine-month leave of absence.

IBM equipment added

The volume and type of work which can be done by the Data Processing Service of the University was expanded this week when new IBM equipment, said to be the first of its type installed in a university for accounting and administrative purposes, was put into operation.

Officially known as 650 Tape RAMAC, the equipment uses magnetic tape as a storage system capable of recording the information from a stack of cards 70 feet high, containing more than 11 million characters, on a single tape which can be read or written in less than 4½ minutes.

President Eric A. Walker and officials of International Business Machines attended a brief ceremony on Tuesday which officially placed the equipment into operation. Present from IBM were Warren Hume, IBM Midwestern regional manager, R. A. Pfeiffer, Jr., manager of District 8; and R. M. Miller, manager in the Johnstown office.

Initially, the equipment will be used for processing financial matters, handling varied transactions related to student records, and for maintaining DHIA records, which the Service has been doing for the Agricultural Extension Service for the past two years.

Enrollment figures

Official enrollment statistics, which are detailed on pages 2 and 3 of this issue of the Faculty Bulletin, show that 20,377 students of all categories are in attendance at University Park and the other campuses and centers.

This year's enrollment tops that of last year by 508 and the enrollment for University Park alone shows an increase of 152, with 14,786 registered. Off-campus enrollment increased 356, to 5,591.

Undergraduate enrollment for both on and off campus shows an increase of 426 to 18,001 and graduate enrollment rose by 82, to 2,376.

The statistics also show that the College of Engineering and Architecture has the largest undergraduate enrollment but that the College of Education has the most graduate students.

Women faculty invited

New women members of the faculty with the rank of instructor or above and members of the administrative staff with positions of administrative assistant or higher are particularly invited to attend the Faculty Women's Club fall reception on Monday, Oct. 19 from 7:30 to 9:30 p.m. in the ballroom of the Hetzel Union Building.

Haberler to lecture

Gottfried Haberler, professor of economics at Harvard University, will be the next speaker on the Graduate School Lecture Series, on Tuesday, Oct. 20 at 8 p.m. in Room 121 Sparks.

He will speak on "Inflation, Recession, and Dollar Surplus." The lecture is co-sponsored by the Economics Faculty Seminar.

A native of Austria, Dr. Haberler came to this country in 1936 when he joined the faculty at Harvard. Previously he had taught at the University of Vienna and had been attached to the financial section of the League of Nations. He became associated with the Board of Governors of the Federal Reserve System, Washington, D.C. in 1943.

UN day observance

A United Nations Weekend, designed by the students of the University to create student concern with international affairs, will feature a number of events Friday, Saturday, and Sunday, Oct. 23-25.

From 9-12 p.m., Friday, Oct. 23 the UN Festival will be held in the HUB Ballroom. On Oct. 24, the raising of the flags will take place on front campus and the dedication of a tree plaque will be made in the HUB courtyard.

Also on Saturday are scheduled: (1) Community Peace Conference, from 2:30 to 5 p.m. in the HUB; (2) the UN dinner, at 5:30 p.m. in the HUB Terrace Room, residence hall dining rooms, and fraternities; and (3) a musical show titled "Getting to Know You" from 8 to 10 p.m. in Schwab Auditorium.

On Sunday, Oct. 25, many churches will offer prayers concerning UN Day.

Fellowship nominations

Nominations for Woodrow Wilson National Fellowship Foundation fellowships will close Oct. 31. These fellowships are designed to encourage outstanding students to consider college teaching careers by providing a stipend of \$1500, plus full tuition and fees and a dependency allowance for wives and children, for the first year of graduate work at any university in the United States or Canada.

Candidates for the award must be nominated by a faculty member. Nominations should be sent to Prof. John A. Lester, Jr., Haverford College, Haverford, Pa.

Additional information may be obtained from Dr. Howard A. Cutler, 302 Old Main.

Registrar Reports on Total Campus Enrollment for Fall Semester, 1959 - 60

	1 Sem	2 Sem	3 Sem	4 Sem	5 Sem	6 Sem	7 Sem	8 Sem	Total
AGRICULTURE									
ABCh	18	—	12	—	8	1	3	2	44
AERS	5	—	21	1	15	5	17	6	70
AgEd	22	3	24	5	53	13	26	10	155
AgJ	2	—	—	—	—	—	1	—	3
Agro	3	1	6	1	3	—	4	2	20
AH	19	1	22	4	23	3	31	6	109
Bact	17	1	7	—	7	—	8	3	43
BPP	1	—	2	—	1	2	1	1	8
Consv	—	1	3	—	1	—	3	2	10
DSc	25	1	14	3	31	3	16	5	98
FRD	—	1	—	—	1	—	—	—	2
GnAg	14	1	8	2	5	1	3	5	39
Hort	14	3	12	2	13	3	10	2	59
LArch	5	2	10	1	11	4	9	8	51
MedT	42	1	28	—	18	1	6	—	96
PH	2	—	2	—	1	1	2	—	8
PV	33	2	23	1	16	—	1	—	76
ZE	12	—	5	—	17	—	24	4	62
2AG	32	1	7	2	—	—	—	—	42
School of Forestry									
For	1	2	64	2	54	9	57	19	208
WU	—	—	6	—	6	4	1	1	18
Total	267	21	276	24	285	50	223	75	1221
BUSINESS ADMINISTRATION									
BA	276	14	258	39	364	47	385	86	1479
Total	276	14	258	39	364	47	385	86	1479
CHEMISTRY & PHYSICS									
ChE	120	2	75	3	56	2	45	11	314
Chem	79	2	41	4	26	8	27	4	191
Phys	74	2	64	8	39	10	28	8	233
PM	58	3	30	1	35	—	17	2	146
Sc	12	1	13	1	7	—	15	2	51
Total	343	10	223	17	163	20	132	27	935
EDUCATION									
AEEd	20	2	19	3	34	2	18	5	103
Ed	371	25	369	40	359	65	318	60	1607
IArt	8	1	9	3	16	5	16	11	69
MusEd	16	2	18	3	25	4	24	4	96
Psy	55	1	52	13	78	16	73	21	309
ViEd	—	1	1	2	2	2	2	1	11
Total	470	32	468	64	514	94	451	102	2195
ENGINEERING & ARCHITECTURE									
AeroE	—	—	58	8	56	6	48	8	184
AgE	21	1	17	—	12	1	8	4	64
Arch	65	4	16	3	23	—	15	*23	149
AE	25	—	11	—	8	1	10	**13	68
CE	—	1	77	7	60	9	65	14	233
EE	—	1	145	42	209	52	142	46	637
EMch	—	—	19	1	3	—	1	2	26
Engr	670	29	25	1	—	—	—	—	725
ESc	—	—	26	1	21	1	17	4	70
IE	—	1	36	3	36	9	64	29	178
ME	—	2	75	11	102	20	78	52	340
SE	—	—	—	—	—	—	2	1	3
Total	781	39	505	77	530	99	450	196	2677
HOME ECONOMICS									
HEc	145	3	120	6	138	9	96	9	526
HA	—	1	22	2	16	6	20	8	75
2HFS	13	—	—	—	—	—	—	—	13
Total	158	4	142	8	154	15	116	17	614
THE LIBERAL ARTS									
AL	390	22	342	31	275	42	285	44	1431
LMR	13	1	7	1	12	3	18	7	62
School of The Arts									
AArt	36	2	23	1	14	2	13	4	95
Arts	15	—	11	—	8	3	16	3	56
School of Journalism									
Journ	57	2	41	8	43	6	46	14	217
Total	511	27	424	41	352	56	378	72	1861
MINERAL INDUSTRIES									
Cer	11	1	17	—	10	—	11	—	50
FT	15	1	5	1	9	—	8	—	39
Geog	3	—	2	1	3	—	5	1	15
G&G	15	—	11	1	13	—	6	—	46
G&M	35	1	16	—	14	4	12	2	84
Metal	36	2	44	1	22	1	14	10	130
Meteo	18	—	13	4	26	7	24	4	96
MnEc	1	—	2	—	8	—	4	—	15
MPE	2	—	4	—	2	—	5	2	15
MngE	6	—	4	1	10	1	11	3	36
PNGE	7	2	12	4	9	1	9	5	49
Total	149	7	130	13	126	14	109	27	575

Registrar Reports on Total Campus Enrollment for Fall Semester, 1959 - 60

	1 Sem		2 Sem		3 Sem		4 Sem		5 Sem		6 Sem		7 Sem		8 Sem		Total
Physical Education & Athletics																	
PhEd	55		4		56		9		57		8		53		19		261
RcEd	6		—		7		1		5		3		11		3		36
Total	61		4		63		10		62		11		64		22		297
Division of Counseling																	
Counseling	134		40		345		39		110		19		14		4		705
Total																	
Undergraduates	3150		198		2844		332		2660		425		2322		628		12559
	Freshmen		Sophomores		Juniors		Seniors		Graduate		Special		Totals				
	M	W	M	W	M	W	M	W	M	W	M	W	M	W	M	W	T
Campus																	
Full-time	2144	1193	2123	1034	2219	849	2214	698	596	97	37	14	9333	3885			13218
Part-time	9	2	11	8	13	4	25	13	997	251	99	136	1154	414			1568
Total on Campus	2153	1195	2134	1042	2232	853	2239	711	1593	348	136	150	10487	4299			14786
Centers (See summary below)																	
Full-time (4-Yr)	1174	327	408	78	13	1	1	—	—	—	3	1	1599	407			2006
Full-time (2-Yr)	892	15	573	12	—	—	—	—	—	—	1	—	1466	27			1493
Part-time (4-Yr)	16	7	22	3	—	2	3	—	—	—	15	22	58	32			90
Part-time (2-Yr)	25	—	30	2	1	—	—	—	—	—	2	—	58	2			60
Total Centers	2107	349	1033	95	14	3	4	—	—	—	21	23	3181	468			3649
. (Including Mont Alto)																	
Part-time Cont. Ed. Classes	—	—	—	—	—	—	—	—	310	125	787	720	1097	845			1942
Total Off Campus	2107	349	1033	95	14	3	4	—	310	125	808	743	4278	1313			5591
Total On and Off Campus	4260	1544	3167	1137	2246	856	2243	711	1903	473	944	893	14765	5612			
	5804		4304		3102		2954		2376		1837		20377				

Summary of Off-Campus Enrollment Fall Semester, 1959 - 60

	Four-Year		Graduate		Special		Two-Year		
Centers	Full-Time	Part-Time	Part-Time	Full-Time	Part-Time	Full-Time	Part-Time		
Allentown	—	—	—	—	—	108	3		111
Altoona	282	6	—	4	10	128	14		444
Behrend	187	14	—	—	1	81	7		290
DuBois	124	2	—	—	4	71	1		102
Hazleton	183	1	—	—	—	90	5		279
McKeesport	107	3	—	—	—	195	12		317
Mont Alto	127	—	—	—	—	—	—		127
New Castle	—	—	—	—	—	46	2		48
New Kensington	—	—	—	—	1	103	3		104
Ogontz	792	26	—	—	12	107	2		940
Pottsville	200	1	—	1	11	46	—		259
Scranton	—	—	—	—	—	92	2		94
Wilkes-Barre	—	—	—	—	—	154	1		156
Wyomissing	—	—	—	—	—	112	2		114
York	—	—	—	—	—	159	2		161
Total Centers	2002	53	—	5	39	1492	58		3649
Part-time Cont. Ed.	—	—	435	—	1507	—	—		1942
Total Off-Campus	2002	53	435	5	1546	1492	58		5591

Recapitulation

	M	W	Total
Campus			
Full-time undergrad.	8737	3788	12525
Part-time undergrad.	157	163	320
Total undergrad.	8894	3951	12845
Full-time graduate	596	97	693
Part-time graduate	997	251	1248
Total graduate	1593	348	1941
Total Main Campus	10487	4299	14786
Off Campus			
Full-time undergrad.	3065	434	3499
Part-time undergrad.	116	34	150
Part-time Cont. Ed.	—	—	—
Undergrad.	787	720	1507
Graduate	310	125	435
Total Off Campus	4278	1313	5591
On and Off Campus			
Undergraduate	12862	5139	18001
Graduate	1903	473	2376
Total	14765	5612	20377

Graduate and Special Students by Colleges

	Graduate		Special	
	M	W	M	W
Agriculture	268	26	15	5
Business Admin.	80	1	9	10
Chem. and Phys.	260	17	9	3
Education	265	114	30	36
Eng. and Arch.	197	—	17	—
Home Economics	5	61	—	20
Liberal Arts	238	100	48	74
Mineral Ind.	231	6	6	1
Phy. Ed. and Ath.	28	12	2	1
General Graduate	21	11	—	—
Total	1593	348	136	150
	1941		286	

Calendar

Saturday, Oct. 17

College of Home Economics Coffee Hour for alumni of the College, 9:30 to 11:30 a.m., Maple Room, Home Economics Building.

Alumni Homecoming.
Football, vs. Boston University, 1:30 p.m.
Thespian Show, "It's in the Book," 8:00 p.m. Schwab Auditorium.

UCA Series on basic Christian theology for faculty, staff, and graduate students, 8:30 p.m., Helen Eakin Eisenhower Chapel lounge. Dr. Roger L. Shinn, professor of Christian Ethics, Union Theological Seminary, on "The Nature and Destiny of Man."

Centre Stage production of "On Borrowed Time," 8 p.m.

Sunday, Oct. 18

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Samuel N. Gibson, UCA executive director.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Roger L. Shinn, professor of Christian ethics, Union Theological Seminary. Concert by "The Chordettes," 2 p.m., Recreation Building, sponsored by the World University Service Committee.

Monday, Oct. 19

Faculty Women's Club reception, 7:30-9:30 p.m., HUB Ballroom. Prospective new members invited.

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Earl P. Strong, assistant dean of the College of Business Administration, on "Management Development."

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A". W. L. Bingham, instructor, on "Telemetry of Strains from Photoelastic Gaging Elements."

State College Color Slide Club, 7:30 p.m., Mineral Industries Auditorium. Showing of last year's prize winning slides.

Tuesday, Oct. 20

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. Dr. Gottfried Haberler, professor of economics, Harvard University, on "The Problem of Inflation."

Joint technical meeting, AIEE and IRE, 7:15 p.m., Room 219 Electrical Engineering. R. A. Strand, instructor in electrical engineering, on "Energy Conversion Using the Generalized Machine."

Philosophy Colloquium, 4:15 p.m., Room 317 Willard. Dr. Albert Tzengawa, instructor in philosophy, on "The Objectivity of the Aesthetic Judgement."

Graduate Lecture Series, 8 p.m., Room 121 Sparks. Dr. Gottfried Haberler, on Inflation, Recession and Dollar Surplus."

Wednesday, Oct. 21

Physics Colloquium, 4:15 p.m., Room 117

Osmond. Dr. W. E. Stehens, department of physics, University of Pennsylvania, on "Use of Monochromatic Gamma Rays for Measuring Photonuclear Absorption."

Forestry Convocation, 11 a.m., Room 121 Sparks. Dr. Peter W. Fletcher, director, School of Forestry, on "How Penn State Can Better Educate More Foresters."

Thursday, Oct. 22

Mineral Industries faculty meeting, 4:15 p.m., Mineral Industries Auditorium.

Biological Sciences Lecture Series, 4:15 p.m., Room 112 Buckhoute. Dr. Dietrich Bodenstein, National Institutes of Health, on "Regeneration in Insects."

Friday, Oct. 23

Artists Series program by Leonard Rose and Leon Fleisher, 8:30 p.m., Schwab Auditorium.

United Nations Festival, 9-12 p.m., HUB Ballroom, under the sponsorship of the UN Festival Committee.

Fluid Mechanics Seminar, 4:15 p.m., Room 102 Sackett. T. E. Peirce, research associate, Ordnance Research Laboratory, on "Perfect Fluid Flow about a Body and Introduction to the Classical Neumann Problem."

Center Stage production of Paul Osborn's "On Borrowed Time," 8 p.m.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Charles P. Thornton, assistant professor of petrography, on "Volcanoes and Volcanic Activity on the West Coast."

Artists series tickets

The general sale of tickets for the Artists Series program by Leonard Rose, cellist, and Leon Fleisher, pianist, which is to be given Friday, Oct. 23 at 8:30 p.m. in Schwab Auditorium, will be held on Oct. 21 and 22, from 9 a.m. to noon and from 1 to 5 p.m. at the Hetzel Union Building desk.

Hort show Saturday

The 46th annual Horticulture Show, this year on the theme "A Market Square," will be held tomorrow and Sunday in the Stock Judging Pavilion. The display will feature a town square surrounded by quaint farmers' stalls displaying horticultural and agricultural produce.

Films to be previewed

Films listed below have been requested from producers. Please call Extension 2051 and give code number of those you would like to see; you will be notified when they arrive so that you can arrange a preview showing in Room 9, Library.

- 0-1 Broken Doll
- 0-2 This Is My Friend
- 0-3 Introduction to the Stanford Binet Test of Intelligence
- 0-4 Ionization
- 0-5 Solutions
- 0-6 Nitric Acid Compounds and the Nitrogen Cycle
- 0-7 Hydrogen
- 0-8 Nitrogen and Ammonia
- 0-9 Nitrogen
- 0-10 Acids, Bases and Salts
- 0-11 Colloidal State
- 0-12 Origin of Mathematics
- 0-13 George Washington's River
- 0-14 Sun and Dust
- 0-15 Safe Bicycling
- 0-16 Helen Tamiris in Negro Spirituals
- 0-17 A Special Child
- 0-18 Using the Laboratory
- 0-19 The Calendar
- 0-20 Boats: Buoyancy, Stability, Propulsion
- 0-21 Beginning Responsibility: Books and Their Care
- 0-22 More Than Words

Departments notice

University departments having materials, equipment, or supplies stored under the stands at Beaver Field have been advised to remove their property as soon as possible.

Walter H. Wiegand, director of the department of physical plant planning and construction, explains that workmen will begin removing the stands to their new location on the University farms on Nov. 16, two days after the final home football game with Holy Cross.

Davey succumbs

Dr. Wheeler P. Davey, who retired in 1949 as professor emeritus of chemistry and physics, died on Oct. 12 at the age of 73.

faculty BULLETIN

Vol. 47, No. 6

Oct. 16, 1959

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Penn State Collection,
Pattee Library.

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Pugh centennial

Thursday, October 29, will mark the 100th anniversary of the date Evan Pugh, first president of the University, arrived for duty at the modest "Farmers' High School," which ultimately became Penn State.

Although only 31 at the time, Dr. Pugh had already made a mark in Europe as a brilliant investigator in the field of chemistry. As administrator of the new school, he did much to put it on a sound footing before his untimely death in 1864.

The Penn State Room has recently acquired a blacksmith shop door bearing the carved lettering, "Evan Pugh 1839," from a Chester county farm to add to its memorabilia of the first president. Pugh lived at the farm after the death of his father and before he went to Europe to study.

Board thanks faculty

The Board of Trustees has, through a resolution, expressed its appreciation to the faculty for the opportunity to exchange views on the future of the University at the Faculty-Trustee Symposium on Thursday, Oct. 1. The subject of the symposium was "The Mission of a State University — A Design for Quality."

Special mention was made for the work of Dr. Harriett D. Nesbitt and Dr. Roy C. Buck, general chairmen of the Symposium; Dr. Robert Scholten, Dr. Bruce Sutherland, H. Thomas Hallowell, Jr., and Ralph Hetzel, the latter two trustees, for their participation in the panel at the concluding session; and to B. C. Jones, trustee, who served as liaison.

Panama treats Schmidt well

HIS three months in Panama this summer gave Orvel A. Schmidt, associate professor of forestry, no cause for viewing with alarm relations between Panamanians and U. S. citizens.

"In fact," he says, "the people there gave me the red carpet treatment and I enjoyed myself thoroughly.

"But perhaps others do not have the same experience. My only comment is that if you are close enough to the people, they will be very friendly. My job took me everywhere, and I met and worked with a lot of people."

Schmidt's job during the three months was to aid the lumber industry through an International Cooperation Administration mission. For such missions, the U. S. Government provides part of the funds necessary and the foreign government provides the balance. The mission took Schmidt to the large cities and to the interior, for lectures and short courses as well as on-the-job demonstrations.

"At times," he says, "I stayed in the finest homes and at others in the humblest shacks and ate the simplest meals."

The Panamanian government, Schmidt explains, as well as private industry, is vitally interested in making more effective use of their timber stands and improving their wood utilization programs.

"Panama has had excellent natural forests and can grow trees rapidly," Schmidt says, "but is now facing a problem of depletion of reserves.

"This depletion, however, is not

caused by the lumber industry but by the farmer. When he moves into a new area, he has a surveyor go over the land and declare that there is no commercial timber on it. Since he's being paid by the farmer to do the job, he will say what the farmer wishes him to say.

"The farmer clears the land, indiscriminately girdling big trees to kill them and cutting the smaller trees and piling them up to dry. In a year, he'll set fire to everything.

"The first year of farming, he will grow rice, the second year corn. Without any treatment, the land is now depleted, so the farmer moves on. The land goes back into brush, then ultimately into timber, but many useful years have been lost."

The government is gravely concerned over the situation since timber is one of its principal crops. Plans are now developing to set aside more areas for forest reservations.

Schmidt learned that one of the problems in Panama was the lack of standards in lumber sizing and grading, and of designing buildings using timber. Architects, for example, are unaware of the fact that considerable testing has shown the strengths of Panamanian timbers to be much above that of U. S. wood, yet they have been using U. S. standards in design, obviously with much waste. One of Schmidt's programs was a short course for architects and engineers to set up standards usable in Panama.

(Continued on page four)



Orvel A. Schmidt, right, is given a going-away present of two exquisite trays from representatives of the Panamanian lumber industry to show their appreciation for his work this summer. Mrs. Schmidt is at lower left. The young lady making the presentation is the president of one of the lumber companies.

UCA welcome program success

WITH the help of 65 faculty families on Sunday, September 13, the University Christian Association was successful in its attempt to make some 1400 new students feel at ease on their first day on campus. Of these, 900 were guests of the faculty families.

For Miss Genevieve Dilts, associate director of U.C.A. who handled the details of the "Visits in Faculty Homes" program, the overflow of 500 students who had to be welcomed in large group parties at the Helen Eakin Eisenhower Chapel and at the Wesley Foundation, was convincing evidence of the students' interest in this program.

The basic purpose of the Visits in Faculty Homes, explains Miss Dilts, is to help the student understand that University faculty and staff members do have a personal interest in him. The U.C.A. believes that such a personalized interest in individuals is a meaningful expression of Christian concern.

No less important than the contact with faculty members is the opportunity for the student to get acquainted with his fellow students.

"This year, for the first time," says Miss Dilts, "We had the students go to faculty homes according to residence halls, so that students living close to each other would more than likely go together, and thus begin the process of forming the friendships of the year."

"The fact that over a third of the new students did attend," says Miss Dilts, "is of real significance that the students want this chance to get acquainted."

The program of Visits in Faculty Homes was initiated by the U.C.A. two years ago when the Orientation Committee designated the students' first Sunday evening on campus as a time

for receptions by the religious foundations. Rather than sponsoring large gatherings in the churches, the U.C.A. undertook to welcome Protestant preference students in smaller groups in faculty homes. There, some information about opportunities for participation in the life of the U.C.A. and the churches, could be given the students along with discussion of their other questions about campus life.

All entering students were made aware of this orientation program during the summer. They were informed that for Jewish students, Hillel Foundation planned a mixer, as did Newman Club for Roman Catholic students. No one, of course, was required to attend any of the functions.

High praise is given to the faculty members who volunteered their homes and their hospitality for this occasion on a purely voluntary basis. Generally speaking, those who opened up their homes are active members of their respective Protestant churches, but by no means were all such persons contacted.

"With the increasing response to this welcome program," Miss Dilts explains, "we know that we will need to take care of more than 900 students next September. We would be glad to have more faculty members volunteer for this one-night program."

Frost program tickets

Tickets for the Artists Series program to be given by poet Robert Frost on Oct. 31 will be distributed to the general public on Oct. 29-30 at the Hetzel Union Building desk.

Tonight at 8:30 p.m. in Schwab Auditorium, Leonard Rose, cellist, and Leon Fleisher, pianist, will present the fourth Artists Series program of the season.

Brewster's book criticized

Dr. R. Wallace Brewster, professor of political science, is the latest member of the faculty to join the "Russia Hates Me" Club. His book, "Government in Modern Society" was recently bitterly attacked by "Soviet Culture," a publication of the Ministry of Culture.

The book was one of the books on display at the recent American Exhibition in Moscow.

The French publication, Political Science Review, praised the book highly.

Napier in UCA series

"The Biblical Revelation of God" will be the subject of the lecture of Dr. B. Davie Napier, Holmes professor of Hebrew Literature at Yale University Divinity School on Monday, Oct. 26 at 8 p.m. in the lounge of the Helen Eakin Eisenhower Chapel.

The talk by Dr. Napier, who is author of the book "From Faith to Faith," is the second in the current University Christian Association series on "Basic Theological Questions."

Educators arrive

Twenty-four Latin American educators, half men and half women, have taken up their study of the school system in the United States in a program sponsored by the International Cooperation Administration and the College of Education. They will spend nearly a year in the State, much of the time on campus.

Lecture series set

Dr. Harlow Shapley, director emeritus of the Harvard College Observatory, will open the University Lecture Series on Sunday, Nov. 1 in Recreation Building.

He will speak on "The Origin and Development of Earth as a Habitable Planet," in the series which has as its theme this year, "The Origin and Development of Man and His Culture."

To follow in the series are the following lecturers and their topics:

Sunday, Nov. 15 — Dr. Wilton M. Krogman, professor of physical anthropology, University of Pennsylvania, on "The Origin and Physical Development of Man."

Wednesday, Dec. 16 — Dr. Carleton Coon, University of Pennsylvania, on "The Origin and Development of Man's Culture."

Sunday, Mar. 13 — Dr. Herman J. Muller, Indiana University, on "The Future Physical Development of Man."

Sunday, Mar. 20 — Dr. Leslie A. White, on "The Future Development of Man's Culture."

Tickets, priced at \$1.25 for non-students, will go on sale at the Hetzel Union Building desk for the lecture by Shapley on Wednesday, Oct. 28.

Teachers examination

The next National Teachers Examination will be given on Saturday, Feb. 13, registration for which will close on Jan. 15. This examination is used in some states for teacher certification. Additional information may be obtained from Dr. Andrew V. Kozak, test supervisor, at Room 311 Burrowes.

Report fires immediately

Fires in any building, reminds Dr. E. F. Olver, director of the department of security, should be reported promptly to the Campus Patrol, even if extinguished immediately. Of importance also is the reporting of the use of any fire extinguisher. Regardless of when it is used, night or day, it will be replaced or refilled so as to be available for immediate use.

SDE to hold tea Sunday

Sigma Delta Epsilon, national graduate women scientific fraternity, will hold a tea at the Home Economics Living Center on Sunday, Oct. 25, at 3 p.m.

Voters guide Wednesday

Newer faculty members may be interested in the League of Women Voters "Voters' Guide" which will be published in the Centre Daily Times on Wednesday, Oct. 28. The guide will contain information concerning candidates for local, county, and State offices.

Personnel matters

Cdr. Frank H. Savio has been named executive officer and associate professor of naval science and **Lt. Joseph E. Murray** has been named assistant professor of naval science. Cdr. Savio is a native of Chicago, saw service in the Pacific during World War II and was decorated with the Distinguished Flying Cross and Air Medal. Lt. Murray is a native of Syracuse, N.Y., and has been on duty with the Navy since 1952.

* * *

Dr. H. O. Triebold, head of the department of agricultural and biological chemistry, will work on a book on food composition and analysis and visit universities where food research work is in progress during a three-month leave of absence, beginning Feb. 1.

* * *

James L. Hannan and **Thomas E. Piper** have been named extension marketing agents. Hannan, of Ithaca, N.Y., is a graduate of the University of Maryland and recently was granted the master of science degree in marketing by Cornell University. Piper is a 1952 graduate of Penn State and in February will receive a master of science degree in agricultural economics and marketing from Cornell. He has been an assistant county agent.

* * *

Dr. Jean D. Amberson, who retired on Aug. 31, has been named professor emerita of home economics education by the Board of Trustees. She served on the faculty for 35 years. From January 1957 to June 1959, she served as adviser of home economics education at Taiwan Provincial Normal University as a member of the Penn State team of the International Cooperation Administration's Mission to China.

* * *

Maurice Sevik, formerly senior engineer at Avro Aircraft, Ltd., of Canada, has been named research assistant at the Ordnance Research Laboratory. A graduate in mechanical engineering at Robert College, Istanbul, he received the diploma of the Imperial College at London University, and has completed graduate courses in advanced applied aerodynamics at the Institute of Aero-Physics of Toronto University.

Senate Minutes

Annual Report

Committee on Extension Policy

During this academic year the committee has considered several different topics of significance. In general these studies led to reports to the Senate which were accompanied by specific recommendations. The title and a brief summary of each of these is given below.

The Need to Increase the Effectiveness of the Baccalaureate Program of the University Centers and Campuses and a Plan by which this may be Accomplished.

The committee's study disclosed that at present students enrolled in only a relatively limited number of the University's curriculums can profitably spend two full years at

a Center or Campus. In view of the plans for the Long Range Development of the University which suggest that by 1970 an enrollment of approximately five thousand freshmen and sophomores at Centers and Campuses other than University Park is expected, it is evident that this situation must be changed.

The committee's recommendations, which were adopted by the Senate at the April 2, 1919 meeting, called for the developing at each Center or Campus offering two-year baccalaureate curriculums a program of courses which will enable students to complete two years of study there in most curriculums. Colleges and departments were asked to study their baccalaureate programs and to make such adjustments as might be required in order to employ effectively a specified program of courses, similar to one suggested in the report. A progress report to the Senate on or before January 15, 1960 was requested.

Educational Opportunities for Commonwealth Campus Faculty Members.

A questionnaire survey of the faculties of the Commonwealth Campuses revealed that, although only 55% of those who replied presently hold masters or doctors degrees, there is a substantial amount of interest in work toward advanced degrees.

Eight specific recommendations designed to stimulate advanced work among all Commonwealth Campus staff members and to eliminate insofar as possible the inequality of opportunity for such work arising from the locations of these campuses were made. The report was adopted by the Senate at its May 7, 1959 meeting. Following this action Vice President Dennis outlined President Walker's plans for dealing with the various recommendations. (See Faculty Bulletin for May 22, 1959).

Reconsideration of Status of "800" Courses.

In connection with the establishment of the Associate Degree Program a group of courses designed particularly for these curriculums was introduced and given numbers in the 800 series. The committee believed that in the light of experience with these programs and with these courses it would be appropriate at this time to reconsider the general policy with regard to the "800" courses, especially the matter of applying credit in such courses toward baccalaureate degrees.

Recommendations were formulated calling for a re-examination of the general policy on Associate Degree Programs and "800" courses by the Committee on Educational Policy, for a consideration by this committee in conjunction with the Courses of Study Committee of replacing the current policy in regarding applicability of "800" courses to baccalaureate degrees with a more flexible one, and adopting an interim policy which would permit, with approval of the student's Dean, the applying of "800" courses toward satisfaction of elective requirements of baccalaureate curriculums.

This report will be considered by the Senate at its June 3, 1959 meeting.

The Use of Television in Continuing Education and on the Commonwealth Campuses.

The present use of television by this University for non-credit and credit work, other than at University Park, was reviewed. In addition some consideration was given to educational television programs such as the Continental Classroom course in Physics, and the Sunrise Semester program of New York University. Specific recommendations emerging from the study included the following: non-credit TV programs be continued, experimentation with TV instruction from University Park campus to other campuses be continued, and that appropriate units of this University should keep in touch with the technology and economics of TV kinescoping with the expectation of possible use at the Commonwealth campuses and in cooperation with high schools in conducting advanced study credit programs.

This report will be considered by the Senate at its June 3, 1959 meeting.

The committee was requested to become acquainted with the aspects dealing with extension of the report of the Administrative Committee on Long Range Development, "Penn State's Future" (Jan. 1, 1953) and accepted President Walker's invitation to comment on it. In addition the committee was informed of the studies made more recently by the President's Committee on Extension.

The full committee held twenty two-hour meetings during the year and in addition all members participated in the activities of one or more sub-committees which conducted preliminary studies. The committee was privileged to have had the advice and assistance of Professors C. R. Carpenter, T. S. Goas and K. L. Holderman in several matters and the very considerable benefit of their counsel is hereby acknowledged.

Respectfully submitted—E. E. Baer, R. W. Brewster, H. S. Brown, Mary E. Fuqua, A. W. Hutchison, Chm., D. C. Jones, E. L. Keller, ex officio, H. W. Knerr, R. E. McCord, H. R. McCulloch, A. H. Reede, Vice-Chm.

Calendar

Friday, Oct. 23

Artists Series program by Leonard Rose and Leon Fleisher, 8:30 p.m., Schwab Auditorium.

United Nations Festival, 9-12 p.m., HUB Ballroom, under the sponsorship of the UN Festival Committee.

Fluid Mechanics Seminar, 4:15 p.m., Room 102 Sackett. T. E. Pierce, research associate, Ordnance Research Laboratory, on "Perfect Fluid Flow about a Body and Introduction to the Classical Neumann Problem."

Center Stage production of Paul Osborn's "On Borrowed Time," 8 p.m.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Charles P. Thornton, assistant professor of petrography, on "Volcanoes and Volcanic Activity on the West Coast."

Saturday, October 24

United Nations Day. Tree plaque dedication. Community Peace Conference, 2:30-5 p.m. in the HUB. Musical Show, "Getting to Know You," in Schwab Auditorium, 8 p.m.

Soccer, versus Maryland, 1:30 p.m.

Center Stage production of Paul Osborn's "On Borrowed Time," 8 p.m.

Sunday, October 25

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel, Rev. Arthur Seyda, Lutheran student pastor.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Davie Napier, Yale University Divinity School.

Sigma Delta Epsilon Tea for graduate women in science, 3-5 p.m., Home Economics Living Center.

Monday, October 26

UCA Series on "Basic Theological Questions," Lounge, Helen Eakin Eisenhower Chapel, 8 p.m. Dr. Davie Napier, Yale University Divinity School, on "The Biblical Revelation of God."

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Eugene Ackerman, associate professor of physics, on "Biophysics in the American University."

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering A. L. W. Hu, associate professor, on "Plastic Analysis of Anisotropic Bodies."

Tuesday, October 27

Graduate School Lecture Series, 8 p.m., Room 121 Sparks. Luna B. Leopold, engineering, Geological Survey, U.S. Department of the Interior, on "Rivers and Creeks: Their Significance to Man." Co-sponsored by the College of Engineering and Architecture and the College of Mineral Industries.

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. G. K. Strother, assistant professor of physics, on "In Vivo Microspectrophotometry."

Wednesday, October 28

Forestry Convocation, 11 a.m., Room 121 Sparks. Harold B. White, associate professor of physical education, an illustrated lecture, "Canoe Trip in Canada."

Opening of exhibit of recent art works of members of the faculty, Hetzel Union Building gallery.

Thursday, October 29

Mathematics Colloquium, 3:15 p.m., Room 124 Sparks. Joseph Kist, assistant professor of mathematics, on "Positive Linear Transformations."

Friday, October 30

Fluid Mechanics Seminar, 4:15 p.m., Room 102 Sackett. A. M. O. Smith, supervisor of aerodynamics research, Douglas Aircraft Co., on "Advances in the Exact Calculation of Potential Flow."

Center Stage production of Paul Osborn's "On Borrowed Time," 8 p.m.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Sidney A. Bowhill, associate professor of electrical engineering, on "New Frontiers in Ionosphere Research."

Next Month

Nov. 1 — University Lecture Series, Dr. Harold Shapley.

Nov. 5-7 — Players Production of "Dark of the Moon" by Howard Richardson and William Berney.

Nov. 8 — Artists Series program of "Camera Concerti," string and wind orchestra.

Nov. 15 — University Lecture Series, Dr. Wilton M. Krogman.

Nov. 17 — Hal Holbrook's interpretations of Mark Twain, on Artists Series Program.

Panama—

(Continued from page one)

Exportable mahogany and cedar, once of considerable importance, are now virtually extinct, but nurseries are being developed.

"Some of their woods," says Schmidt, "grow fantastically. In 20 years, the tree called laurel will grow to a 20-inch diameter, and be ready for cutting. There would never be a shortage in timber if it were not for firing by the farmers."

Panamanian lumber men, like other business men, lack one important ingredient — the spirit of risk. Each wants to get his money back from an investment within two weeks. One reason for this attitude may well be related to the interest rates charged: 12% for those considered a good risk, up to 20% for poor risks. Security for the loan must be much greater than in the United States.

In spite of this attitude toward investments, Schmidt was able to show how the purchase of modern equipment would pay off, even with wage rates of 30 cents per hour. He demonstrated some equipment which he felt sure would aid in production, and discussed techniques in cutting and marketing lumber as done in this country.

Schmidt found the food and the climate quite bearable, and he would be more than willing to return. The diet leaned heavily on rice, which he likes, and chicken, beef, and pork all tasted alike but there was some variety. Coffee was *strong* and black and there was seldom dessert, except for fruit. Surprisingly, Panamanians do not season their food highly as do many other Latin Americans.

"Although I was there in summer, the temperature was above 90 degrees only three times," Schmidt explains. "The humidity was high, but apparently conditions were no worse, and were perhaps better than you had in Pennsylvania during the same period. In the mountainous regions it was somewhat cooler and every place it would cool off in the evening after the sun went down."

Schmidt was impressed with the bus system in the cities. You can travel anywhere for ten cents and there are no delays, because they are lined up for a block, one leaving every few minutes.

Panama has a future, Schmidt believes, and especially so when the Interamerican Highway is completed. Panamanians, although they may work at a slower pace than we do, are quite willing to work hard. Many of the lower class, of course, have only a bleak future, as we would view it.

"But who are we to say what they should do?" Schmidt asks. "They are happy. Perhaps change would not be good for them."

If unhappy relations exist between Panamanians and U. S. citizens, it may be because of the wages paid in the Canal Zone. Labor there is paid 60 cents per hour, twice the average in the rest of Panama, but it is felt that the minimum wage of \$1 per hour in the States should also prevail in the Canal Zone.

"From my own limited experience, however, I don't believe Panamanians are unfriendly to us. When we left, a number of the lumbermen gave us two very handsomely decorated trays. It wasn't the type of gift you give somebody you don't like."

UN weekend program

Displays of the cultural works of six geographical regions of the world will be featured in the UN Festival from 9-12 p.m., Friday, Oct. 23, the initial event of United Nations Weekend.

UN Weekend has been developed by the students to help create student concern with World Refugee Year, with international affairs, and with the student's role in the world today.

Other events on the program include the raising of the flags on front campus, dedication of a plaque in the HUB courtyard, a Community Peace Conference, and a musical show titled "Getting to Know You," in Schwab Auditorium, all tomorrow.

PBK members sought

All members of Phi Beta Kappa—faculty, staff, or students—who are not already affiliated with the local chapter are invited to do so and are urged to send their name, address, and University status to the secretary: Catherine Carter, 210 Pattee Library.

Graduate day tomorrow

Dr. H. K. Schilling, dean of the Graduate School, Dr. Grace M. Henderson, dean of the College of Home Economics, and Dr. Ruth R. Honey, assistant dean for research, will participate in Graduate Day, a cooperative program in the field of home economics with Drexel Institute of Technology, Temple University, and Penn State, on Saturday, Oct. 24.

The program is designed to acquaint both undergraduate students and alumni with the opportunities offered for both men and women holding advanced degrees in home economics.

faculty BULLETIN

Vol. 47, No. 7

Oct. 23, 1959

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Penn State Collection.
Pattee Library.

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

UCA directors named

The chairman of the University Christian Association Board of Directors for the current year is Dr. Dorothy Houghton, assistant dean of the College of Home Economics. Other officers for the year are: Mark D. Shaw, vice-chairman; Mrs. Michael Farrell, secretary; and Harmer A. Weeden, treasurer.

Chairman of standing committees are: Dr. Margaret Matson, personnel; Dr. Arthur H. Reede, finance; Dr. James Tammen, program strategy; Ralph E. Patterson, Watt's Lodge; Senator Jo Hays, public relations; and Earl B. Staveland, alumni advisory.

La Vie commended

The 1959 yearbook, *La Vie*, received a rating of "A" or "Excellent" in the annual judging by the National School Yearbook Association. The score is given to between 10 and 15 per cent of books judged. A. W. Case, professor of art, is art adviser to the *La Vie* staff; Woodrow W. Bierly, department of public information, is editorial adviser; and William F. Fuller, manager of Associated Student Activities, is financial adviser.

President elected

President Eric A. Walker has been elected president of the Pennsylvania Association of Colleges and Universities, succeeding the Reverend William G. Ryan, president of Seton Hill College. The Association is composed of 64 Pennsylvania colleges and universities.

PRA supports research program

PENN STATE Research Associates, although still a comparative infant, already is vigorous enough to support the University's research program in the arts and sciences to the tune of \$1,000 this year.

Officially, PRA is not a University instrumentality. It is, however, a non-profit organization which has been set up by members of the faculty and one of its purposes, as stated in the articles of incorporation, is to "promote, encourage, and aid basic research in the arts and sciences by the faculty and students of The Pennsylvania State University and other universities. . . ."

The broad outlines of PRA were first presented in a letter from nine faculty members of the College of Chemistry and Physics to Milton S. Eisenhower (then President) on April 20, 1956. Among other benefits to be expected from the organization this letter stated, in part,

Benefits expected

" . . . 1.) It would help to alleviate the present serious and growing shortage of scientific manpower in industry and government by providing increased utilization of the present trained personnel. While many staff members are now engaged in consulting, others, no less talented, are not because they do not happen to have the necessary contacts. By providing a roster of available scientific staff members the corporation would be performing a national service.

"2.) It would help to promote and encourage basic research in the arts and

sciences by supplementing regular University Funds for equipment, summer salaries, travel, or other needs of basic research programs. In doing this, it would contribute greatly to the strengthening of a true research tradition at Penn State and serve to offset the present imbalance between applied and fundamental research. . . .

Improve position

"3.) By providing extra compensation for staff members, it would improve the competitive position of the University in respect to other employers and thus insure the retention of an able staff. . . ."

With continuing encouragement from Eric A. Walker, Vice President for Research and subsequently President, the faculty members proceeded with the proposal. Operating funds necessary to defray organizational and other initial expenses were obtained by life membership dues of \$100 paid by the nine faculty members.

"Certainly there was some skepticism," says Dr. Edwin R. Fitzgerald, associate professor of physics and president of PRA, "but the basic idea eventually sold itself. Two years ago we finally got our Decree of Incorporation from the Centre County Common Pleas Court."

In two short years PRA has achieved a status which enables it, in the words of President Walker, "to make important annual contributions to the basic research program of the University, for which we are most grateful."

(Continued on page four)



Meeting to discuss future plans of Pennstate Research Associates, a group of faculty members who do consulting work, are R. G. Stoner, R. C. Winter, Jerome Strauss, E. R. Fitzgerald, president, J. H. Campbell, E. T. Williams, Thomas Wartik, and C. H. Blanchard, with R. W. Taft standing. PRA presented a check to the University for \$1,000 earlier this year as its contribution to support the research program.

Items of Interest

• Books

D. A. Kribs, botany, a reference book, "Commercial Foreign Woods on the American Market."

C. J. Hillson, A. J. Kovar, and W. F. Westerfeld, all of botany and plant pathology, "Introductory Botany — A Laboratory Manual," published by the Burgess Publishing Co.

N. C. Pendered, industrial arts, a 20-page brochure titled, "Upgrading the Industrial Arts Program."

• Elected or Appointed

Ray Pepinsky, Groth Institute, appointed a member of the Governing Board, American Institute of Physics, representing the American Crystallographic Association.

Ossian MacKenzie, Business Administration, elected vice-president of the Middle Atlantic Association of Colleges of Business Administration.

A. J. Berlin, speech education, vice-president, the Pennsylvania Speech Association.

Irving Michelson, aeronautical engineering, appointed vice-chairman of the Education Committee, American Rocket Society, Inc.

L. E. Dennis, vice-president, appointed chairman of the planning committee for the 15th National Conference on Higher Education to be held in Chicago, Mar. 6-9, sponsored by the Association for Higher Education.

• Lectures and Talks

H. J. O'Brien, Liberal Arts, a talk on "Effective Office Leadership through Manager-Employee Communication," on Oct. 29 at the 11th annual Office Management Conference at the University of Maryland.

S. N. Gibson, University Christian Association, a lecture on "The Church, Christian Culture and Mission," to the international course for theological students at the Ecumenical Institute of the World Council of Churches. Chateau de Bossey, Celigny, Switzerland.

L. H. Sommer, chemistry, a talk on "Stereochemistry of Substitution at Silicon Atoms," before the Philadelphia Organic Chemists Club.

A. A. Benson, ag biochem, a seminar-discussion on "Lipid Metabolism" at the University of California; a symposium at Washington State University, on "Application of the Nuclear Reactor in Biological Research; a talk on "Radioisotope Tracer Techniques" before a conference on physical and chemical methodology at the Eastern Regional Research Laboratory of the U. S. D. A.

H. W. Dunne, veterinary science, a talk on "Winter Dysentery in Cattle," at the 77th annual convention of the Pennsylvania State Veterinary Medical Association.

F. B. Moore, engineering, a talk on

"Instrumentation Education" before the Pittsburgh section, Instrument Society of America.

B. W. Niebel, industrial engineering, a talk on "Industrial Engineering Techniques," before the Mid-Hudson chapter of the American Institute of Industrial Engineers, at Poughkeepsie, N. Y.

Viktor Lowenfeld, art education, a keynote speech at the Creativity Conference at the University of Minnesota, on "What is Creative Teaching?"

W. A. Williams, industrial education, an illustrated talk on "The Development of Industrial Education in Taiwan" at the Western Pennsylvania Education Conference in Pittsburgh on Oct. 9.

• Articles and Papers

R. L. Slobod, petroleum and natural gas, co-author of a paper on an improved method of secondary recovery of oil at the annual meeting, Petroleum Branch, American Institute of Mechanical Engineers.

R. S. Brubaker, speech, co-author of article, "Vowel Overlap as a Function of Fundamental Frequency and Dialect," in the October issue, Journal of the Acoustical Society of America.

H. P. Zelko, speech, an article titled "Emergence of a Rhetoric of Discussion," which is edited by R. T. Oliver.

Viktor Lowenfeld, art education, a paper on "How Can I Evaluate Art Activities" in The Brooklyn Teacher.

H. D. Gerhold, forestry, a paper on "Seasonal Yellowing of Scotch Pine—Its Implications for the Genetic Improvement of Christmas Trees," at the Seventh Northeastern Forest Tree Improvement Conference, Burlington, Vt.

L. L. Werboff, economics, a study on "The Effects of Installment Credit Term Variation" in the September issue of the Journal of Finance.

V. E. Mares, economics, an article, "American Policy Toward the East European Satellites" in the October issue of Current History.

Kaj Drenck and Raymond Pepinsky, Groth Institute, a joint paper on automatic instrumentation for crystal analysis at a meeting of the Commission on Instrumentation of the International Union of Crystallography.

B. M. Siegenthaler, speech, a paper titled "Cooperative Research Potential — Public School Programs and Teacher Training Institutions," at the 20th annual convention of the Pennsylvania Speech Association.

W. J. Ross, electrical engineering, a paper on "Integrated Electron Densities from Satellite Radio Doppler Frequency Observations," at the Fall meeting of the International Scientific Radio Union at San Diego, Calif.

Viktor Lowenfeld, art education, a paper in the October issue of "School Arts Magazine," on "Creativity and Art Education."

Dennis on TV program

Lawrence E. Dennis, vice-president for academic affairs, is one of the participants in the televised "Conference on Higher Education," which will be seen via video tape on WFBG-TV, Channel 10, Altoona, on Saturday, Oct. 31, from 4 to 5 p.m.

The conference was originally held in the studios of WFIL-TV, Philadelphia. It is a discussion among representatives of several Pennsylvania colleges and universities on a number of critical problems facing the Commonwealth in the field of higher education.

Next week, Dennis will attend two meetings in Washington, D.C. As chairman of the American Council on Education's Committee on Equality of Opportunity in Higher Education, he will preside at several sessions of the Invitational Conferences sponsored by the Committee, Nov. 1-3.

On Nov. 2, he will attend a meeting of the Joint Council on Educational Television, of which he is a member.

NSF information given

Outstanding graduate students who have been teaching assistants in the sciences for one academic year are reminded by the Graduate School office that the National Science Foundation has available nationally some 550 summer fellowships which may be of interest to them.

The fellowships are designed to enable the teaching assistant to devote full time to his studies and research during the summer months and thus hasten the attainment of the higher degree.

A quota of 20 applicants may be recommended by the Graduate School, from many areas of science. Further information may be obtained from the Graduate School office, 104 Willard.

The Graduate School Office urges members of the faculty to remind outstanding seniors and graduate students in certain sciences that Nov. 6 is the deadline by which application materials for the 1960-61 National Science Foundation Cooperative Graduate Fellowships must reach the Graduate School Office, 104 Willard Building.

The areas of study included are the physical, biological, mathematical, mineral, engineering, anthropological, psychological (excluding clinical) geography, and certain selected social sciences. Any outstanding student wishing to apply may secure application materials at the Graduate School office by presenting a note from his department head, approving his obtaining application materials.

Personnel matters

Dr. Henry A. Finch, professor of philosophy, plans to work on a book, "Experimental Science and Human Wisdom" and to travel in Europe, during a leave of absence for the Spring semester.

* * *

George S. Bush, assistant professor of journalism at the University of Minnesota, will join the faculty on Jan. 1 as associate professor of journalism specializing in magazine and photo-journalism courses. Born in Vienna, Austria, Bush received bachelor and master of arts degrees from Wayne University, Detroit. He has extensive experience in newspaper work.

* * *

A. Sherk Frommeyer, Dauphin county agricultural agent since 1930 will retire Oct. 31 to be succeeded by **Harold E. Stewart**, present associate county agent in Dauphin county. Frommeyer served for a year as assistant county agent before being named to the Dauphin County post. Stewart is a 1949 graduate in animal husbandry and was appointed assistant county agent in Carbon and Monroe counties on graduation. He was transferred to Dauphin County in 1952.

* * *

Dr. James W. Markham, professor of journalism, will conduct research on comparative journalism and international mass communication during a leave of absence next semester. He will work in State College and Washington, D.C.

Living accomodations

Slightly over half of the undergraduates but fewer than seven per cent of the graduate students enrolled at University Park live on the campus, a survey by the department of housing shows.

Of the 14,786 enrollees at University Park (including special students) 55.3 per cent live at home, in private off-campus housing, in fraternities, or in trailers.

The survey also reveals that of the 4,299 women students of all classifications, 84.3 per cent live on campus but only 28.4 per cent of the men students do.

A total of 2039 students live in fraternities, comprising 19.5 per cent of the male enrollment and 13.8 per cent of the total.

The undergraduate enrollment total, is 12,599 and of these 6,471 or 51.4 per cent live in University residence halls, 25.5 per cent in private off-campus housing, 16.1 per cent in fraternities, and 5.5 per cent at home. A total of 191, or 1.5 per cent, live in trailers.

Artists series tickets

Tickets will be sold to the general public for the Artists Series program, "Camera Concerti," on Nov. 5-7 at the Hetzel Union Building desk. The program of this string and wind orchestra, featuring violist Walter Trampler, will be given in Schwab Auditorium on Sunday, Nov. 8, at 8:30 p.m.

Robert Frost, the poet, presents the next Artists Series program on Saturday, Oct. 31 in Schwab Auditorium at 8:30 p.m.

Sigma Xi lecture Tuesday

Dr. William J. Luyten will speak on "Stellar Populations, Dying Stars and Stellar Evolution" under the sponsorship of the Society of Sigma Xi on Tuesday, Nov. 3 at 8 p.m. in the Mineral Sciences Auditorium.

Born in the Netherlands East Indies, Dr. Luyten was granted degrees at the University of Amsterdam and the University of Leyden, before coming to this country. He has been on the staffs of the University of California and Harvard. He has been director of the observatory at the University of Minnesota since 1931.

Home Ec research seminar

The next College of Home Economics Research Seminar will be held on Tuesday, Nov. 3 in dining room "A" of the Hetzel Union Building. Dr. Ruth R. Honey, assistant dean for research in the College, will discuss "Decision Making in the Use of Family Financial Resources." The program will begin at 12:30 p.m.

Barrett to speak

Dr. Edward W. Barrett, dean of the Columbia University Graduate School of Journalism, will speak on "International Persuasion" in the Lieral Arts Lecture Series on Monday, Nov. 2 at 8 p.m. in Room 121 Sparks.

U club reception

The annual reception of the University Club will be held on Sunday, Nov. 1 at the Club from 3 to 5 p.m.

Next Month

Nov. 1 — University Lecture Series, Dr. Harlow Shapley.

Nov. 5-7 — Players Production of "Dark of the Moon" by Howard Richardson and William Berner.

Nov. 8 — Artists Series program of "Camera Concerti," string and wind orchestra.

Nov. 15 — University Lecture Series, Dr. Wilton M. Krogman.

Nov. 17 — Hal Holbrook's interpretations of Mark Twain, on Artists Series Program.

Nov. 19 — Graduate School Lecture Series, Dr. Donald E. Super, psychologist educator, Columbia University.

Nov. 22 — Artists Series program by the Pittsburgh Symphony Orchestra.

Calendar

Friday, October 30

Fluid Mechanics Seminar, 4:15 p.m., Room 102 Sackett. A. M. O. Smith, supervisor of aerodynamics research, Douglas Aircraft Co., on "Advances in the Exact Calculation of Potential Flow."

Center Stage production of Paul Osborn's "On Borrowed Time," 8 p.m.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Sidney A. Bowhill, associate professor of electrical engineering, on "New Frontiers in Ionosphere Research."

Saturday, Oct. 31

Artists Series program by poet Robert Frost, 8:30 p.m., Schwab Auditorium.

Soccer, versus Navy, 1:30 p.m.

Center Stage production of Paul Osborn's "On Borrowed Time," 8 p.m.

Sunday, Nov. 1

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Reverend Theodore A. Braun.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Davie Napier, Holmes professor of Hebrew Literature, Yale University Divinity School.

University Club reception, 3 to 5 p.m., at W. College Ave. and Atherton St.

University Lecture Series talk by Dr. Harlow Shapley, director emeritus, Harvard College Observatory, on "The Origin and Development of Earth as a Habitable Planet."

Sigma Delta Chi annual banquet, 6:30 p.m., Nittany Lion Inn. Dr. Edward W. Barrett, dean of the Pulitzer School of Journalism, Columbia University, on "The Challenges of Journalism and Mass Communication."

Monday, Nov. 2

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Hugo Weisgall, visiting professor of music, on "The Fine Arts in the Liberal Arts College."

Liberal Arts Lecture Series, 8 p.m., Room 121 Sparks. Dr. Edward W. Barrett, dean of the Columbia University Graduate School of Journalism, on "International Persuasion."

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A". K. D. Pae, instructor, on "Load Carrying Capacity of Anisotropic Shells."

Tuesday, Nov. 3

Sigma Xi Lecture, 8 p.m., Mineral Sciences Auditorium. Dr. W. J. Luyten, director of the observatory, University of Minnesota, on "Stellar Populations, Dying Stars, and Stellar Evolution."

College of Home Economics Research Seminar, 12:30 p.m., dining room "A", Hetzel Union Building. Dr. Ruth R. Honey, assistant dean for research, on "Decision Making in the Use of Family Financial Resources."

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. N. Austern, department of physics, University of Pittsburgh, on "Direct Nuclear Reactions."

Wednesday, Nov. 4

Forestry Convocation, 11 a.m., Room 121 Sparks. Dr. Richard N. Jorgensen, assistant professor of wood technology, on "Venezuela: Its People and Industries."

Chess Club meeting, 7 to 11 p.m., HUB card room.

Graduate Mining Seminar, 3-5 p.m., Room 24 Mineral Industries. J. P. Connell, on "Underground Hydraulic Mining."

Thursday, Nov. 5

University Senate meets, 4:10 p.m., Room 121 Sparks.

Opening night of Players production of "Dark of the Moon," Schwab Auditorium, 8 p.m.

Mathematics Colloquium, 3:15 p.m., Room 124 Sparks. Joseph Kist, assistant professor of mathematics, on "Positive Linear Transformations."

Friday, Nov. 6

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Howard R. Lillie, staff research manager, Corning Glass Works, on "Problems of the Glass Industry."

Fluid Mechanics Seminar, 4:15 p.m., Room 102 Sackett. Dr. R. L. Slobod, head of the department of petroleum and natural gas, on "Some Engineering Problems Associated with the Use of Miscible Solvents for Increasing Crude Oil Recovery."

Senate to meet

The University Senate will meet on Thursday, Nov. 5, at 4:10 p.m. in Room 121 Sparks.

PRA supports—

(Continued from page one)

For each consulting job members of PRA do as members, 20 per cent of their fees are set aside for the corporation which, in turn, makes grants to the University. Since many members have been doing consulting work for many years for private and public organizations, they are not required to turn over any part of their consulting fees from this work to the fund unless they so choose.

"As a matter of fact," says executive vice-president Jerome Strauss, retired vice-president of Vanadium Corporation of America, "members are asked to turn over money to PRA only if the work was obtained through the efforts of the organization."

In the 1958-59 fiscal year, ending on June 30, 37 consulting jobs were done by PRA members, some of the jobs lasting for only a few hours, others for many days. Faculty members may, according to University regulations, do up to one day of consulting work each week, in the interest of serving both industry and government and also to enable faculty members to maintain direct contact with the problems in their respective fields.

Present life members of PRA include: Drs. C. H. Blanchard, E. R. Fitzgerald, R. G. Stoner and R. G. Winter of the physics department; W. W. Miller, R. W. Taft, and T. Wartik of the chemistry department; and E. T. Williams, chemical engineering. J. C. Eisenstein, formerly associate professor of physics, is also one of the original members. J. H. Campbell is the secretary-treasurer.

PRA offers to industry and government the opportunity to obtain a wide variety of talents which can be used individually and collectively. On the

present roster of 32 consultants are not only chemists and physicists but also mathematicians, engineers, biochemists, fuel technologists, experts in business administration, and a philosopher.

After two years of operation, PRA is taking on an identity of its own as a consulting organization. Many members, of course, still are called on directly, and that will always be true, Fitzgerald believes, but PRA should continue to gain stature with its growing wealth of talent.

The grant by PRA last year was ultimately made available to Dr. Robert K. Murray, now head of the department of history, for his study of American life and culture in the 1890's. Eventually Dr. Murray hopes to have a two-volume work on that period.

This year the funds, which are administered by the Administrative Committee on Research, have been given to Dr. E. H. Freund, professor of philosophy; Dr. John A. DeNovo, associate professor of American History; and to Dr. Elizabeth Smith, associate professor of zoology at Behrend Center.

Freund's work is concerned with the significance of existentialism for moral and religious philosophy in present-day Europe. He is now on leave in Germany, and the grant is aiding him in making use of the library facilities in the area.

DeNovo's project, leading toward the publication of a book, is concerned with American diplomatic history and international cultural relations in the Middle East, from 1900-1939.

Miss Smith has for some years been making a study of the growth, hibernation, roosts and other habits of bats. Her grant will enable her to travel locally and to Kentucky and Tennessee for further study.

Shapley to speak

"The Origin and Development of Earth as a Habitable Planet," will be the subject of the lecture by Dr. Harlow Shapley, director emeritus of the Harvard College Observatory, on Sunday.

This is the first of five scheduled University Lecture Series talks for the year which commemorate the 100th anniversary of the publication of Charles Darwin's "Origin of Species." The series concerns itself with the origin and development and the future of man and his culture.

Shapley will speak at 8 p.m. in Recreation Building. Tickets for the lecture have been on sale since Wednesday at the HUB desk, priced at \$1.25.

Engineering group

Nearly 70 representatives of industry and professional engineering groups will meet here Wednesday with faculty members of the College of Engineering and Architecture.

The representatives are members of a newly organized Industrial and Professional Advisory Council organized by the College to aid in meeting the needs of industry. The meeting Wednesday will be concerned with the training of engineering students.

Dr. Merritt A. Williamson, dean of the College, believes that the meeting will enable the College to keep its programs more closely attuned to the needs of industry.

President Eric A. Walker, Dean Williamson, and members of the faculty will speak, after which the representatives will form nine groups to discuss measures to be taken in each of the nine areas of engineering.

faculty BULLETIN

Vol. 47, No. 8

Oct. 30, 1959

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Penn State Collection,
Pattee Library.

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Nominations asked

Faculty and staff members are invited to nominate candidates for the University's "Distinguished Alumnus Award" and for "Penn State Woman of the Year" award for 1960.

The recipients of the awards are to be chosen by the Board of Trustees at its January, 1960, meeting. Five alumni will be selected for the first award and one woman will be honored as Penn State Woman of the Year. The awards will be presented in June, during Alumni Institute.

Nominations for the awards will be accepted by the Secretary of the Board of Trustees, 201 Old Main, until Nov. 21. A biographical sketch of the nominee, his address, and the basis on which the nomination is made should be provided.

Current University faculty or staff members or members of the Board of Trustees are not eligible to receive either award.

Holiday schedule

University offices will be closed on Wednesday, Nov. 11, in observance of Veteran's Day. Classes will be held as usual, however.

Students will begin Thanksgiving recess at noon, Wednesday, Nov. 25, and classes will resume at 8 a.m. Monday, Nov. 30. Offices will be closed on Thanksgiving Day, Nov. 26.

At Christmas time, classes will recess beginning at noon on Saturday, Dec. 19 and resume at 8 a.m. on Monday, Jan. 4. Offices will be closed from 5 p.m. on Dec. 22 to 8 a.m. on Dec. 28 and also on Jan. 1.

Purdy internationally known

IN Perth, Scotland, last winter a trimly-built, good-looking American stood in the center of the auction ring, concentrating his attention on the very best of the Aberdeen Angus cattle from all over the Isles.

For nearly seven hours, with a short break for lunch, he had looked at Angus bulls, apparently oblivious to everything else in the ring. Over 960 animals had passed before him and on his final decision rested thousands of dollars and the reputations of Scotland's leading beef breeders.

With complete confidence, Herman Purdy, assistant professor of animal husbandry, slapped the rump of "Elevate of Eastfield," and pronounced him the grand champion. A hearty cheer went up from the 2,500 spectators crowded together to view the judging and later to witness the sale at auction of these same animals.

The Grand Champion, Elevate of Eastfield, later was sold to an American buyer and is now in Maryland. In justification of Purdy's decision, "Elevate" drew a price of \$75,000 at the auction.

Those unacquainted with the science and art of judging livestock can probably little appreciate the significance of the spectators' cheers at Perth. The very fact that Purdy was asked to come all the way from America to judge the show is in itself of some meaning;

Purdy's name is known internationally, and respected.

It is also of considerable import that the show directors wanted him to return each year for the next five years to judge their prize animals! Regretfully, he had to decline.

Certainly the experience at Perth was one to remember for Purdy, but the fact is that he is called on so often to be judge at the most important shows in the United States that additional honors come under the heading of "gilding the lily." He is rapidly running out of new worlds to conquer in his field.

Purdy's grandfather established a name in beef cattle fields in Missouri and both his father and brothers have followed in these footsteps. In his youth he was early exposed to the characteristics of good Shorthorns and other breeds of beef cattle. In 4-H and FFA work he improved on this knowledge. As a student at Ohio State University from 1938 to 1942, he lived in the beef barns, just as some students do here at Penn State, and was a member of the livestock judging team. Now 40 years of age and with some thirty years of experience in judging, Purdy has emerged as probably the top beef cattle judge in the world today.

Ohio State, in the 'forties, began to expand its interest in beef cattle and

(Continued on page four)



Herman Purdy, assistant professor of animal husbandry, is internationally known as a judge of beef cattle and is often called on for the biggest shows in this country and abroad. Here, on left, he congratulates the owner of the grand champion Angus bull at a show at Perth, Scotland.

Items of Interest

• Honors and Awards

M. S. Osborne, architecture, being awarded the honorary degree of doctor of laws by the University of Manitoba today.

• Elected or Appointed

✓ P. C. Weaver, Summer Sessions, elected vice-president of the Association of Deans and Directors of Summer Sessions.

J. B. Nesbitt, civil engineering, appointed chairman of the publications committee of Sanitary Engineering Division, American Society of Civil Engineers.

✓ A. H. Waynick, electrical engineering, appointed a member of the National Science Foundation Advisory Panel on Summer Science Training Programs for Secondary School Students.

G. M. Dusinberre, mechanical engineering, as chairman of a session at the annual meeting of the American Society of Mechanical Engineers at Atlantic City, on Nov. 30.

S. A. Bowhill, electrical engineering, appointed editor of the journal, "Transactions of the IRE Professional Group on Antennas and Propagation."

• Articles and Papers

J. A. Mourant, philosophy, a paper commenting on Human Freedom and Realism at the convention of the Realist Association at the University of Connecticut, Oct. 23.

S. H. Rosen, philosophy, an article titled "Curiosity, Anxiety, Wonder," published in the Fall issue of the *Giornale di Metaphysica*, an Italian philosophy journal published in Tarrino.

M. A. Williamson, engineering and architecture, a paper on the future trends in engineering education, at an Engineering Symposium at McDonnell Aircraft Corp.

• Lectures and Talks

F. J. Sorauf, political science, in a panel discussion on the topic "Religion as a Factor in Politics," before the regional conference of the Citizenship Clearing House at the University of Pittsburgh.

J. J. Kaufman, economics, a talk on "The Economics of Depressed Areas" on Oct. 21 before the Economic Development Round Table of Washington, D.C.

Joseph Jordan, chemistry, a talk on "Hydrodynamic Voltammetry" at the Eastern Analytical Symposium sponsored by Analytical Groups of the American Chemical Society, Society for Applied Spectroscopy, and Metropolitan Microchemical Society.

Chamber music Sunday

The program to be presented Sunday, Nov. 8 by "Camera Concerti" on the Artists Series features the works of Handel, Telemann, Mozart, Corelli, Hindemith, and Handel.

Tickets for the program by this 14-piece string and wind group went on sale to the general public yesterday and will remain on sale until tomorrow at the Hetzel Union Building desk.

Joseph Eger is the musical director of the group, which is considered unique among chamber orchestras. Featured are the great concertos for horn and viola.

The program is scheduled for 8:30 p.m. in Schwab Auditorium.

Krogman speaks Nov. 15

Dr. Wilton M. Krogman, professor of physical anthropology at the University of Pennsylvania, will present the second talk in the University Lecture Series on Sunday, Nov. 15.

The series this year, titled the Darwinian Series, is concerned with the origin and development of man and his culture. Dr. Krogman's talk will be on "The Origin and Development of Earth as a Habitable Planet."

Tickets for non-students will go on sale at 9 a.m., Friday, Nov. 13 at the Hetzel Union Building desk.

Players show tonight

"Dark of the Moon," a folk-drama with music and dance, is the current Players' production at Schwab Auditorium. It will be shown at 8 p.m. tonight and tomorrow night.

Written by Howard Richardson and William Berney, the play concentrates on the legends and superstitions of mountain folk in the Carolina hills. Folk ballads such as "Barbara Allen" and "Smoky Mountain Gal" are interspersed in the play.

Robert D. Reifsneider, associate professor of theatre arts, directs the play.

Enrollment corrections

The following corrections should be made in the enrollment statistics in the Oct. 16 issue of the *Faculty Bulletin*:

Bus. Adm. — 3rd semester, 268 (instead of 258)

DuBois — total of 202 (instead of 102)

New Kensington — total of 107 (instead of 104)

Ogontz 2-year, part-time — 3 (instead of 2)

Wilkes-Barre 2-year, part-time — 2 (instead of 1)

Weisgall lecture series

Hugo Weisgall, distinguished visiting professor of music and one of the nation's leading composers, conductors and arrangers, will present a series of four lectures on the theme, "Twentieth Century Lyric Theatre," the first lecture on Friday, Nov. 13.

All of the lectures will be presented in the HUB assembly room at 8 p.m. and the dates of the other three lectures are Jan. 8, March 11, and April 22. The first lecture is titled "The Weight of Tradition."

Presently the choral director of Chizuk Ammuno Congregation, Baltimore, Weisgall is also chairman of the Faculty of the Cantors Institute and Seminary College of Music, Jewish Theological Seminary, New York, conductor of the Johns Hopkins Orchestra, and a member of the faculty of the Julliard School of Music.

Weisgall has been guest conductor of the London Symphony and the London Philharmonic, the BBC Symphony, Orchestre de la Chapelle Royale, (Belgium), The Baltimore Symphony, and the National Symphony (Washington, D.C.).

U.C.A. lecture Nov. 14

"The Christian in Community" will be the subject of a lecture by Dr. Theodore Gill on November 14 in the Lounge of the Eisenhower Chapel at 8:00 p.m. This lecture is the third in a series on "Basic Theological Questions" sponsored by the University Christian Association Faculty Committee.

Dr. Gill was recently elected president of the San Francisco Theological Seminary (Presbyterian). He was formerly the Managing Editor of *The Christian Century*. He is the editor of a recently published anthology *The Sermons of John Donne* and contributed to *Some Recent Protestant Political Thinking*. He is a graduate of the University of Wisconsin, Princeton Theological Seminary, and the University of Zurich.

Gibbs on metabolism

Dr. Martin Gibbs, department of biochemistry at Cornell University, will discuss "Current Research in Carbohydrate Metabolism" in the second program in the current Lecture Series in Biological Sciences.

He will speak on Thursday, Nov. 12 in Room 112 Buckhout Lab at 4:15 p.m.

Widely known for his work in carbohydrate metabolism in plants and bacteria, Dr. Gibbs was on the staff of Brookhaven National Laboratories for nearly ten years before joining Cornell.

PBK adopts new rules

Lambda chapter of Pennsylvania of Phi Beta Kappa has recently revised its minimum requirements for membership. The following are some of the conditions which must have been met by a graduating senior to be eligible for election:

Eligible seniors must have been in residence at least two years by the end of the second semester of their senior year; they must have an average of 3.50 or more on work at this University, and they must meet the requirements specified below.

Only those seniors whose work has been definitely liberal in character shall be eligible for election as members in course. "Liberal in character" shall be interpreted to mean that at least 80 per cent of the required credits for graduation of the student, exclusive of required R.O.T.C. and physical education courses, have been in the following eight subject matter groups: 1.) biological sciences, including bacteriology, biological and physiological chemistry, botany, and zoology; 2.) physical sciences, including chemistry, geography, geology, mineralogy, and physics; 3.) social sciences, including economics, psychology, political science, and sociology; 4.) humanities, including philosophy and history; 5.) mathematics; 6.) English language and literature; 7.) foreign languages; 8.) arts, including art and architectural history, music, and theater arts. The Membership Committee of the Chapter may designate certain specific courses within these subject matter groups as non-liberal in character and purpose.

In addition to the above requirements, the senior must have passed or must be enrolled in at least the fourth-semester course of one foreign language and at least six credits each from five of the other seven subject matter groups listed above. The foreign language requirement may be met by a proficiency test. No senior shall be eligible if his major is not in one of the subject-matter fields identified above or if his four-year course program includes more than 42 semester hours of required work in one department.

The total members in course elected from all colleges of the University shall not be more than ten per cent of those expected to receive liberal bachelor's degrees according to the definitions set forth in the preceding paragraphs.

Fulfillment of these conditions in no sense obligates the Chapter to elect a student to membership in Phi Beta Kappa. It should be made clear also that elections are by secret ballot, and that in casting their votes the members of the Chapter reserve the right to take into account character as well as scholarship.

Insurance benefits

In answer to questions concerning the University's life insurance plan, the following information has been supplied by the department of personnel services:

1. There is no limitation in the payment of death benefits for any member of the plan if death takes place in an airplane accident, regardless of whether the flight is scheduled or not.

2. There is no limitation, either, if death is caused by any other means, including suicide.

Original play Tuesday

An original one-act play, an adaptation of the Biblical story of the Prodigal Son, will be presented on Tuesday, Nov. 10 in the Five O'Clock Theatre in Old Main.

Author of the play is William K. Bennett, senior majoring in English. His play is described as a moody drama in a study of human emotion.

Folk song concert

Pete Seeger, one of America's most versatile and dynamic folk musicians, will present a concert of authentic folk songs on Friday, November 20, at 8:00 p.m. in Schwab auditorium under the sponsorship of the University Christian Association.

The program of folk music will be international in scope, with a major emphasis upon the American folk music heritage. Mr. Seeger accompanies himself on the banjo, the twelve-string guitar, and other unique instruments such as the chalil — an Israeli flute-like instrument — and the Trinidad steel drum. Mr. Seeger was for a number of years a member of the Weavers, a well-known group of folk singers. He is a major recording artist for Folkways Records.

The proceeds of this concert, above expenses, will go into the U.C.A. Conference Scholarship Fund which is used to enable students to attend national and regional student Christian movement conferences.

Tickets will be on sale, beginning Monday, Nov. 9, at the HUB desk, the Helen Eakin Eisenhower Chapel, and the Music Room downtown.

NSF fellowships

Staff members and graduate students who will have obtained their doctorate at the end of summer, 1960, are reminded that the National Science Foundation has announced that approximately 125 post-doctoral fellowships will be awarded on Mar. 15, 1960.

Deadline for applications for these fellowships is Dec. 22. On receipt of office cards obtainable from the Graduate School office in 104 Willard, the Foundation will send a packet of application material to the applicant.

The fellowships are available to any U.S. citizen who has earned a doctoral degree in the science areas or has equivalent research training and experience.

Banking talk by Smeal

Frank P. Smeal, vice-president and head of the municipal bond department of the Morgan Guaranty Trust Co. of New York, will be the speaker at the Finance Convocation today (Friday) at 3:15 p.m. in the HUB assembly room.

He will talk on Wall Street banking.

A Penn State graduate in economics, in 1942, Smeal received a master's degree from the Harvard Graduate School of Business Administration and a bachelor of law degree from New York University in 1952.

Following the talk, which is open to the public, a reception will be held in the lounge of the HUB.

Calendar

Friday, Nov. 6

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Howard R. Lillie, staff research manager, Corning Glass Works, on "Problems of the Glass Industry."

Fluid Mechanics Seminar, 4:15 p.m., Room 102 Sackett. Dr. R. L. Slobod, head of the department of petroleum and natural gas, on "Some Engineering Problems Associated with the Use of Miscible Solvents for Increasing Crude Oil Recovery."

Players production of "Dark of the Moon," 8 p.m., Schwab.

Center Stage production of "On Borrowed Time," 8 p.m.

Lecture by John O. Simonds, Pittsburgh landscape architect on "Lessons in Landscape Architecture from Chinese and Japanese Gardens," sponsored by the department of horticulture, 7:15 p.m., Room 214 Boucke.

Finance Convocation, 3:15 p.m., HUB assembly room. Frank P. Smeal, vice-president, Morgan Guaranty Trust Co., N. Y., on Wall Street banking.

Saturday, Nov. 7

Football, versus Syracuse, 1:30 p.m.

Soccer, versus Temple, 10 a.m.

Players show, "Dark of the Moon," 8 p.m., Schwab Auditorium.

Center Stage production of "On Borrowed Time," 8 p.m.

Sunday, Nov. 8

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Miss Genevieve Dilts.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Theodore A. Gill, president, San Francisco Theological Seminary.

Artists Series program, "Camera Concerti," 8:30 p.m., Schwab Auditorium.

Monday, Nov. 9

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Nora E. Wittman, assistant professor of German, on "Languages in Elementary Schools."

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A". D. E. Hardenbergh, on "Stresses in Pressure Vessel Branch Connections Due to Internal Pressure on External Loads."

Tuesday, Nov. 10

Industrial Engineering Seminar, 4:15 p.m., Room 201 Engineering C. H. A. Knappenberger, instructor in industrial engineering, on "Sand Grain Distribution Effects on Foundry Molding Sand Properties."

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. Thomas Romanowsky, research associate, Carnegie Institute of Technology, on "Lifetime of the Mu-Meson."

Plant Science Club meeting, 7:30 p.m., Room 111 Tyson. Franklin P. Ferguson, editor, Agricultural Experiment Station, on "The Editor Speaks His Mind."

Wednesday, Nov. 11

Veterans Day. Offices closed all day.

Graduate Mining Seminar, 3 p.m., Room 24, Mineral Industries. M. M. Singh, on "Some Aspects of Rock Failure under Impact."

Chess Club meeting, 7 p.m., HUB card room.

Forestry Convocation, 11 a.m., Room 121 Sparks. Henry H. Chisman, associate professor of forestry, on "Some Aspects of the Cold War."

Mathematics Colloquium, 4:15 p.m., Room 306 Boucke. D. V. Widder, Harvard University, on "Convolution Transform."

Thursday, Nov. 12

College of Business Administration faculty meeting, 4:15 p.m., Room 111 Boucke.

College of Home Economics faculty meeting, 4:15 p.m., Room 14, Home Economics.

College of the Liberal Arts faculty meeting, 4:15 p.m., Room 121 Sparks.

Friday, Nov. 13

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. A. C. Vettermeyer, professor of chemistry, Lehigh University, on "Adsorption and Wetting of Carbons."

Economics Seminar, 12 noon, dining room "A", Hetzel Union Building. Dr. J. Herbert Furth, research staff, Board of Governors, Federal Reserve System on "Recent Developments in International Finance."

Jazz program added

Another program has been added to the Artists Series. Art Hodes and his Dixieland music will present a concert on Sunday, Dec. 13 at 8 p.m. in Recreation Building.

Purdy—

(Continued from page one)

Purdy was given supervision of the beef cattle herds in 1945. It is of more than casual significance that Ohio State won the International Collegiate Judging contest in 1946 and exhibited the International Grand Champion Steer in 1952. Needless to say, his judging teams, both at Ohio State and Penn State, have won many added laurels.

There are many livestock judges in this country. The number of shows, fairs, and auctions which command the services of livestock judges runs into the hundreds every year. Most of the judges are from the State universities, perhaps as much because they can be viewed as completely impartial as any judge can be.

"You can't afford to be anything but completely honest in judging," Purdy says, "or you won't last long. There's too much at stake."

Consistently, as at Perth, the top animals in the show will be bought at high prices for breeding purposes. Animals named grand champions at such shows as the International or the American Royal at Kansas City will inevitably earn for the breeder an outstanding reputation. Small wonder that owners of prize stock sometimes, overzealously, question the judges' decisions.

"Whenever someone comes to me after the judging is over and says angrily 'Why did my animal place second?', I turn the tables, so to speak, and explain that I placed it over the third-place animal because it had certain characteristics which were better. No admission, you see, that the second-place animal was nearly as good as the champion."

Such techniques may be too advanced for Purdy's judging teams but he has

had singular success in this field too. In fact, some of his sternest competition comes from teams which are coached by former Purdy students, and each year now Penn State has livestock teams which place high in the important shows.

Between the trips with the judging team and excursions on his own to fairs and expositions, Purdy travels thousands of miles yearly. Last year's program, which is likely to be duplicated or exceeded this year, started at Springfield, Mass. Before he was through, Purdy had also traveled to Kansas City, Timonium, Md., Chicago, Denver, Fort Worth, Harrisburg, Perth, Scotland, New York state, Connecticut, and the Iowa, Michigan and Ohio State fairs.

This year he has added, with considerable foresight it would appear, the Florida State Show at Tampa, Fla., in January. In past years he has been in 44 states and has judged at all the leading shows in the country, a remarkable record in view of his age. In 1946 he judged one breed of beef cattle at the International, the youngest judge ever to perform there.

In the last five years here at Penn State, Purdy has also been in some measure responsible for the development of the beef cattle herds, especially by his recommendations for purchase of breeding stock. Purdy refuses to take major credit for Penn State Troubador, which won the Grand Champion award at the International in 1956, but he had a considerable hand in the award, and also for the Reserve Grand Champion that year.

Of considerable interest also, is the fact that Purdy has had a part in building up President Dwight D. Eisenhower's herd on his Gettysburg farm and that two of his former students are

working on the farm. He is a more or less regular visitor to the farm to look over the stock.

Purdy takes seriously his duties as coach of the judging team. His biggest job, he says, is building up the confidence of the boys on the team in their ability to judge. In competition, the team members must not only place the animals correctly but also give reasons for the placing—in other words, guesswork will not do.

"Perhaps some of these boys might become show judges and go to Scotland as I did," he explains. "I hate to think they'd base their selection of a \$75,000 animal on guesswork."

"Actually, I know they wouldn't because they have much of the knowledge they need for important judging. They need the experience before tackling big shows."

Apparently it would help, too, to have lots of fortitude—enough to narrow a field of 960 bulls down to one champion.

"My feet got tired," Purdy says humorously. "And it was rather cold at Perth. This was a building with only a roof over it and it was the middle of winter. I had to keep my hands in my pockets but the spectators jammed together in the arena stayed from beginning to end. Many brought their lunches and stayed in place, for fear of not being able to get back in if they should move."

Among stockmen, these affairs are serious business. They get the best judges available.

Art exhibit continues

The third art exhibition of the season is now on display in the Hetzel Union Building Gallery, and features the works of faculty members of the departments of Art, Art Education, Theatre Arts, Architecture, and Home Arts.

faculty BULLETIN

Vol. 47, No. 9

Nov. 6, 1959

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Hairs, Mrs. T. I.
Cent Library

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Schedule corrected

Thanksgiving recess, contrary to the information given in last week's issue, begins officially for students at 9:50 p.m., Tuesday, Nov. 24, instead of Wednesday at noon. Classes will resume at 8 a.m., Monday, Nov. 30.

One other change has been made in the calendar which appears in the Catalogue and in the Student Directory. Classes for the Fall semester will end at 9:50 p.m. Tuesday, Jan. 19 instead of Wednesday, Jan. 20, which will be free of classes and examinations to permit students to study for finals.

Graduate lecture Nov. 19

Dr. Donald E. Super, who will give the next Graduate Lecture on Thursday, Nov. 19, is professor in the department of psychological foundations and services and research associate in the Horace Mann Lincoln Institute of School Experimentation Teachers College, Columbia University.

His subject will be "The Vocational Maturity of Adolescent Boys: Some Psychological Data and Some Educational Implications." The talk is being co-sponsored by the College of Education.

This is the final talk in the Fall semester series. It will be given at 8 p.m. in Room 121 Sparks.

Weisgall lecture tonight

Hugo Weisgall, distinguished visiting professor of music, will begin his series of four lectures on the theme, "Twentieth Century Lyric Theatre" this evening (Friday) at 8 p.m. in the HUB assembly room. The topic is "The Weight of Tradition."

Enrollment increase

THE College of Education has shown the largest percentage increase in undergraduate enrollment and the College of Business Administration the largest in graduate enrollment in the past five years, a comparison of statistics for 1954 and 1959 indicates.

In the same period, Home Economics showed a decrease in undergraduate enrollment and Education virtually stood still in graduate enrollment.

Total University enrollment, including all campuses and centers, has increased from 14,271 to 20,377, or 43 per cent. Of this increase, however, 1,932 are enrolled in part-time Continuing Education (formerly Extension) classes which were not included in the 1954 statistics. Discounting this group, the increase is 29.2 per cent.

The following table summarizes the enrollments at University Park (UP), other campuses (OC), and of undergraduates, graduates, and special students.

	1959	1954	% Inc.
UP undergrad.	12,559	10,422	20.6
UP graduate	1,941	1,334	41.5
UP special	286	247	15.8
Total UP	14,786	12,003	23.2

	1959	1954	% Inc.
OC 4-yr under.	2,055	1,400	46.8
OC 2-yr under.	1,550	851	82.4
OC special	44	17	159.0
OC pt-time			
C.Ed. grad	435	—	—
OC pt-time			
C.Ed. spec	1,497	—	—
Total OC	5,591	2,268	146.5
Grand Total	20,377	14,271	42.8

Summarized below are the undergraduate enrollments by College at University Park only.

	1959	1954	% Inc.
†Agriculture	1,221	1,166	4.5
Business Adm.	1,479	1,115	32.7
Chem-Physics	935	812	15.2
Education	2,195	1,246	76.1
†§Eng-Arch.	2,677	2,520	6.2
Home Ec.	614	778	-20.8
§Liberal Arts	1,861	1,598	16.4
Mineral Indus.	575	444	29.5
Physical Ed.	297	234	22.4
D.I.R.	705	509	38.6

(Note: †In 1954, agricultural engineering was included in Agriculture, is now in Engineering. §In 1954 the applied arts students were included under Engineering and Architecture, are now under Liberal Arts. Adjustments have been made in the summary for these differences.)

The following statistics show the changes in graduate enrollment at University Park only.

	1959	1954	% Inc.
†Agriculture	294	214	37.4
Business Adm.	81	21	286.0
Chem-Physics	277	204	35.8
Education	379	359	5.6
†§Eng-Arch.	197	109	80.7
Home Ec.	66	47	40.4
§Liberal Arts	338	157	115.3
Mineral Indus.	237	193	22.8
Physical Ed.	40	30	33.3

Krogman speaks Sunday

Dr. Wilton M. Krogman, who will present the next University Lecture Series talk on Sunday, Nov. 15, has been professor of physical anthropology at the University of Pennsylvania and also director of the Philadelphia Center for Research in Child Growth since 1947.

A graduate of the University of Chicago, he served on the faculty there 1929-30 and again 1938-47; in the interim he served at Western Reserve University.

The author of "Growth of Man" and "Physical Anthropology of Seminole Indians of Oklahoma," Dr. Krogman was president of the American Association of Physical Anthropology from 1945-49. He is considered a specialist in skeletal identification in medico-legal problems.

In the current Darwinian Series which is the feature of this year's program, Dr. Krogman will speak on "The Origin and Physical Development of Man."

Originally scheduled for Recreation Building, the lecture has been shifted to Schwab Auditorium. Tickets for non students went on sale this morning (Friday) at 9 a.m. at the HUB desk. Those not able to get into the Auditorium will be accommodated in Rooms 10 and 121 Sparks Building where the lecture will be heard through a public address system.

Holbrook here Tuesday

Hal Holbrook, widely known for his presentation of "Mark Twain Tonight," will present the next Artist Series program on Tuesday, Nov. 17 in Schwab Auditorium, at 8:30 p.m.

Tickets for non-students will go on sale at 9 a.m., Saturday, Nov. 14 and continue on sale, if any remain, through Monday, Nov. 16. They are limited to two per customer.

Following the Holbrook program, the Artists Series will present the Pittsburgh Symphony Orchestra, with William Steinberg conducting, on Sunday, Nov. 22 in Recreation Building.

Tickets for this program will go on sale to non-students at 9 a.m. on Wednesday, Nov. 18.

Both sales will be made at the HUB desk.

Davis honored in award

The late Donald W. Davis, head of the advertising department in the School of Journalism until his death on June 29, has been honored by Alpha Delta Sigma, national advertising fraternity, which has named its "progress and efficiency competition" the Donald W. Davis Competition. Florida State won first place in this year's judging.



Luther Kepler and Dennis Sherk are in charge of television production and have aided many faculty members in both closed circuit and broadcast telecasts. They consider their goal the production of shows which serve the educational purposes of the University and rival, in quality, the network shows, in so far as facilities permit.

TV coordinators aid faculty

H. Dennis Sherk and Luther F. Kepler, Jr., are by now familiar figures to those faculty members who have had experience with the University's television network.

Kepler and Sherk are television coordinators (a term only slightly descriptive of their jobs), Kepler in charge of broadcast television and Sherk of closed circuit television. Both have aided many neophyte television "performers" over the initial hurdles.

Their main job, however, is little known even to the persons in front of the camera. It has been described variously as "director," "production coordinator," "conductor" and even "quarterback" and probably all these descriptions are at least partially correct.

In truth, Sherk and Kepler are the main "worriers" behind the daily telecasts of both closed circuit and broadcast television productions. And since working in the television world is like living in a glass house, they feel that they have many critics "looking over their shoulders" as they do their work.

A coordinator's job is to see that everything goes well for a given program from the time it is planned until signoff. Actually there are now five coordinators since the T.V. load is now so heavy. Sherk and Kepler are the veterans of the group, having worked with it since its inception here in 1954.

The television facilities are used about 65-70 hours a week, including 55 hours of closed circuit classroom work, where the picture doesn't go beyond

the campus, and about 10 hours of broadcast, where special programs from the campus are sent out to Altoona for broadcasts to thousands of homes in central and western Pennsylvania.

For the coordinators, a typical day may start early, preparing for an eight o'clock closed-circuit classroom program. Long before the class starts they are on the job to see that the set is properly arranged, and that the lights and cameras are in order and in general to make certain everything is in readiness. Then, too, he goes over last minute details with the "talent" before air time.

From the time the opening signal is given until closing, the coordinator is in control of the program as far as determining what is actually telecast. He sits in a darkened room surrounded by complicated control equipment and several monitors (much like your television set). A set of headphones and a microphone permit him to converse with the "talent" before and after air time.

In the control room, the coordinator is in constant touch with the two cameramen in the studio, quietly telling them where to move their cameras to get the scene wanted, what lens to use (closeup or distant), what persons to focus on — all instructions intended to get the best quality picture on the screen.

For the straight lecture-type of program the instructions are much less complicated than those of panel shows, the daily Farm, Home and Garden show, and other "special" shows. During the

50 minutes of class time, nevertheless, the scenes are shifting back and forth quickly as the coordinator attempts to give the viewer the best possible picture.

"Within the limitations of our space and equipment," Sherk explains, "we hope to do our work in as professional a manner as network people. We are trying to produce high quality educational program and so we don't want to compromise the quality of the production."

"We think of a complete program as a work of art," Kepler explains. "Such elements as framing of the picture, composition, pacing, and continuity are involved."

"Production shouldn't call attention to itself because if it does, we have failed. It is far more difficult to use television techniques unobtrusively but effectively than to emphasize production for production's sake."

Although the technical qualifications of their job are obviously important, Sherk and Kepler consider the ability to meet and work with people one of the most important characteristics of a good t.v. coordinator.

Working with people — faculty members, students, technical people — is indeed a vital part of their work, they point out. Because of their knowledge of television practice, faculty members look to them for considerable guidance.

To help new television teachers, Sherk and Kepler prepared a manual with suggestions for presentational techniques, which many faculty members find useful.

Sherk customarily directs closed-circuit television and Kepler the broadcasts, although both get into the other's area frequently. In addition to these two, who head up the television production staff (which is in the Division of Academic Research and Services), there are three other coordinators: Mrs. Sandra Thomas, Kenneth Murr, and Gerald Hutchison.

In addition, William Pohts is chief engineer, Edward Givler his assistant, and there are 25 student camera operators and 11 student engineers.

The coordinator, or director, feels a certain tension during any program because of possibility that the unknown can upset their best-laid plans. During broadcasts especially, when some 30,000 families in this area may be tuned in, there is a pressure to be on the alert every second.

"This glass house we work in has one saving grace," Kepler says. "It's much more interesting on the inside than the outside."

"There is a great amount of satisfaction in turning out a good production with many people looking over your shoulder."

Items of Interest

• Books

Jeannette Veatch, elementary education, "Individualizing Your Reading Program," published by Putnam and Son.

• Elected or Appointed

T. M. Reeves, audio-visual aids, appointed to the executive board of the Pennsylvania Audio-Visual Instruction Directors.

G. R. Hudson, Counseling in Education, elected chairman for the 1959-60 of the North Atlantic regional group of the National Association of Guidance Supervisors and Counselor Trainers.

A. M. Wellington, Counseling in Education, elected secretary of the above group.

W. P. Winter, industrial engineering, appointed chairman of the Education Division Committee, American Foundryman's Society.

N. C. Pendered, industrial arts, was general chairman of a special session on school shop planning at the 7th annual convention of the Industrial Arts Association of Pennsylvania held last month at Hershey.

Albert Valdman, Romance languages, appointed consultant in French structural linguistics to a testing committee of the Modern Language Association of America meeting at Wellesley College, Nov. 14-15.

• Articles and Papers

H. S. Brown, higher education, an article, "Standards of Performance versus Professional Responsibility of the Faculty," in the Fall issue of *College and University*.

P. E. Shields, electrical engineering, a paper titled "Some Aspects of the Singular Case of Parallel Resonance," at the Fall meeting of the American Institute of Electrical Engineers.

W. J. Ross and S. A. Bowhill, Ionosphere Research Lab, papers at a meeting of the Rocket and Satellite Research Panel, National Academy of Sciences; Ross on satellite observations and Bowhill on the results of experiments using rockets to determine upper ionosphere characteristics.

R. N. Jorgensen, forestry, a paper on "Comparisons of Research in Wood Technology in Latin American and the United States" at the Northeast Section meeting of the Forest Products Research Society at Worcester, Mass., on Oct. 30.

Maurice Mook, anthropology, an article, "Friendly Folklore," in the Oct. 31 issue of *Friends Journal*, a Quaker weekly.



BARRY BRINSMAD, RAYMOND BROWN

Brown-Brinsmaid

Raymond Brown and Barry Brinsmaid, assistant professors of music, will combine in a recital on Sunday, Nov. 15 at 4 p.m. in Schwab Auditorium featuring the music of Handel, Mozart, Poulenc, Carter, Barber, Chanler and Hugo Weisgall.

Brown, baritone, and Brinsmaid, pianist, will present "My Sweet Old Etcetera," by Weisgall, as one of the numbers. Weisgall is now distinguished visiting professor of music at Penn State.

The program will also include four arias by Handel, three songs by Mozart and an aria from "The Magic Flute," a cycle of six songs by Poulenc, and four songs by American composers.

Brown and Brinsmaid have been giving this type of program for six years. Currently the director of the State College Choral Society and also of the Penn State Singers, Brown has given many recitals in past years, last year for example in Philadelphia, Pittsburgh and Lewistown. Brinsmaid is the accompanist for the State College Choral Society.

Next Month

Nov. 20 — Folk song by Peter Seeger.
Nov. 22 — Artists Series program by the Pittsburgh Symphony Orchestra.
Dec. 4, 5 — Artists Series program, The Shakespeare Festival Players.
Dec. 5 — University Christian Association Colloquy on "The Role of Commitment in the University."

Calendar

Friday, Nov. 13

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. A. C. Vettemoyer, professor of chemistry, Lehigh University, on "Adsorption and Wetting of Carbons."

Economics Seminar, 12 noon, dining room "A", Hetzel Union Building. Dr. J. Herbert Furth, research staff, Board of Governors, Federal Reserve System on "Recent Developments in International Finance."

Faculty meeting, College of Agriculture, 4:15 p.m., Room 109 Armsby.

Players Production of "On Borrowed Time," Center Stage, 8 p.m.

Saturday, Nov. 14

Mid-semester below grades due.
Football, versus Holy Cross, 1:30 p.m., Beaver Field.

Sunday, Nov. 15

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Reverend Sam N. Gibson, executive director, UCA.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Theodore A. Gill, president, San Francisco Theological Seminary.

University Lecture Series presentation by Dr. Wilton M. Krogman, professor of physical anthropology, University of Pennsylvania, on "The Origin and Physical Development of Man."

Recital by Raymond H. Brown and Barry S. Brinsmaid, assistant professors of music, 4 p.m., Schwab Auditorium.

Monday, Nov. 16

Faculty Luncheon Club, dining room "A", Hetzel Union Building. A. E. Diem, vice president for business administration.

State College Color Slide Club, 7:30 p.m., Mineral Industries Auditorium. Dr. Thomas Smyth, Jr., assistant professor of entomology, showing slides on "Mountain Photography." Monthly competition, with William Hanson, instructor in art, as judge.

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A". M. R. Bonvalet, visiting professor from University of Nancy, France, on "Application of Photoelasticity to Static and Dynamic Extensometry."

Tuesday, Nov. 17

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. Earle P. Thyler, National Bureau of Standards, on "Infra-red Spectra of Some Polyatomic Molecules in the 3-5 Mu Region."

Artists Series program, by Hal Holbrook, as "Mark Twain Tonight," 8:30 p.m., Schwab Auditorium.

sponsored by the College of Education."
Philosophy Colloquium, 4:15 p.m., Room 317 Willard. Richard Price, instructor in philosophy, "On Truth."

Wednesday, Nov. 18

Forestry Convocation, 11 a.m., Room 121 Sparks. Samuel P. Shaw, head of the wildlife management section, Eastern region, U.S. Forest Service, on "Wildlife Management Problems and Research in the Northeast."

Graduate Mining Seminar, 3 p.m., Room 24, Mineral Industries. Robert Stefanko on "Underground Stress Instrumentation."

Thursday, Nov. 19

Meeting of Phi Lambda Upsilon, honorary chemical society, 8 p.m., Room 214 Boucke. Dr. D. T. Laird, assistant professor of engineering research, on "Applications of Automatic Computers." Open to public.

Graduate School Lecture by Donald E. Super, Columbia University, on "The Vocational Maturity of Adolescent Boys: Some Psychological Data and Some Educational Implications," 8 p.m., Room 121 Sparks.

Meeting of Society for Advancement of Management, Centre Hills Country Club, 6:30 p.m.

Thanksgiving Candlelight dinner served from 5 to 6:30 p.m. at the Hetzel Union Building Terrace Room.

Annual meeting and executive committee meeting, American Association of University Professors, 8 p.m., Room 203 Willard.

Friday, Nov. 20

Fluid Mechanics Seminar, 4:15 p.m., Room 102 Sackett. Nunzio J. Palladino, head of the department of nuclear engineering, on "Survey of Fluid Mechanics Problems in Nuclear Reactors."

Lecture by Dr. W. H. Brattain, research physicist, Bell Telephone Laboratories, at meeting of chemistry and physics teachers of Commonwealth Campuses, 7:30 p.m., Room 119 Osmond, on "The Physics of Semiconductors."

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. T. S. Bates, professor of mineralogy, on "Weathering and Clay Formation."

Associateships renewed

The National Academy of Sciences-National Research Council has announced the renewal of its program of post-doctoral research associateships supported by several agencies of the Federal government and tenable at certain universities and government laboratories.

Most of these appointments, the Graduate School office points out, are for regular post-doctoral research associateships for promising young investigators who have recently completed their doctoral degrees. Some are for senior post-doctoral appointments.

Announcement circulars will be found in the "post-doctoral book" in the Graduate School office and further information may be obtained by writing to the National Academy of Sciences-National Research Council, 2101 Constitution Ave., Washington, D.C.

Physicist speaks Nov. 20

Dr. Walter H. Brattain, research physicist at the Bell Telephone Laboratories, will speak on "The Physics of Semiconductors" on Friday, Nov. 20 at 7:30 p.m. in Room 119 Osmond Laboratory.

His talk will be open to the public. The occasion is the annual conference of the Chemistry and Physics Teachers of the Commonwealth Campuses.

Nobel Laureate of 1956, Dr. Brattain has been with Bell Labs since 1929. He has also served at the National Bureau of Standards, worked on the National Defense Research Project at Columbia University, and served as visiting lecturer at Harvard. His special interests lie in electron collisions, thermionics, transistor physics, and the surface properties of semiconductors.



Junior Museum Science Class

About 50 youngsters of the College Area schools, grades 3, 4 and 5 are attending weekly science classes sponsored by the Junior Museum of State College. The classes are held in the library of the State College Junior High School where, for the past two weeks, Dr. Harrison M. Tietz, professor of anatomy and physiology, has been holding youngsters spellbound with his discussions of the physical makeup of the human body.

PBK gives books

Three sets of books on English madrigals will be purchased by the Phi Beta Kappa chapter here to present to the Pattee Library.

Comprising 68 volumes, the sets are "The English Madrigal School" and two series of "The English School of Lutenist Song Writers," by Edmund Horace Fellowes and were published from 1913 to 1932.

Offices moved to Mac Hall

The Correspondence Instruction Department of Continuing Education Services, now has offices at 304 McAllister Hall. Registration and other information may be obtained by dialing 5-4391 and grades by dialing 5-7422.

Also moved to McAllister Hall are the offices of the Institute of Public Safety, now in Room 332. Telephone numbers remain unchanged.

faculty BULLETIN

Vol. 47, No. 10

Nov. 13, 1959

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Hairs, Mrs. T. I.
Cent Library

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

UCA colloquy Dec. 5

Dr. Kenneth I. Brown, executive director of the Danforth Foundation, will be the principal speaker at a Faculty Colloquy on Dec. 5 at the Nittany Lion Inn.

The colloquy is concerned with "The Role of Commitment in a University," and is sponsored by the Faculty Committee of the University Christian Association. Faculty and staff members as well as graduate students planning to go into University teaching or research are invited.

Dr. Brown's talk, titled "Religious Commitment in the University," will be given during the first session, which begins at 2 p.m.

Two faculty panel presentations, followed by discussion, will complete the program. Participants in the first panel, which will deal with "The Types of Commitment Found in the University," will be Dr. Mary Dodds, professor of foods and nutrition; Dr. Walter Coutu, professor of sociology, and Dr. Robert Tschan, assistant dean of the Graduate School.

The second panel, discussing "The Commitment of the Self and the Freedom of the Mind," will include Dr. J. Mitchell Morse, assistant professor of English composition; Dr. Ray Pepinsky, research professor of physics; and Dr. Rustum Roy, professor of geochemistry.

A registration fee of \$4.50, which includes dinner, will be charged. Wives or husbands are also welcome for dinner, which will be \$2.50. Dinner is in the Penn State Room of the Inn.

Reservations should be made by calling the U.C.A. office UN 5-7627.

Conference starts

The Annual Conference of Chemistry and Physics Teachers of the Commonwealth Campuses begins this morning (Friday) with a visit to classes on campus, followed this afternoon by a program of discussion by Dr. F. G. Brickwedde, dean of the College of Chemistry and Physics, Dr. Erwin W. Mueller, research professor of physics, and others.

Feature of this evening's program will be an address by Dr. Walter H. Brattain, research physicist at the Bell Telephone Laboratories on "The Physics of Semiconductors." It will be given at 7:30 p.m. in Room 119 Osmond Laboratory.

Dr. Helen W. Nutting, assistant professor of chemistry at Ogontz, will talk at the session tomorrow morning on the use of thioacetamide in qualitative analysis. This session will have the general theme of "The Instructional Program in Chemistry and Physics."

S. S. Research Center meets

Dr. Sidney Siegel, associate professor of psychology, will present a paper titled "Decision Making and Choice Behavior" at the fall meeting of the Social Science Research Center on Wednesday, Dec. 2, at 8 p.m. in the Hetzel Union Building dining rooms A-C.

Dr. H. K. Schilling, dean of the Graduate School, and Dr. Henry Finch, professor of philosophy, will be discussants of the paper, which is a report of Dr. Siegel's current research work. Equipment used in the study will be demonstrated during the social hour preceding the talk.

Deposit checks at bank

Faculty and staff members, including graduate students, may, if they choose, have their monthly salary checks deposited at a local bank. Application forms to initiate this procedure may be obtained at the Bursar's Office in Willard Building. The forms must be filed by the 15th of the month the deposit is to be made.

Statements of the employees earnings are mailed quarterly.

Reminder on parking

All staff members whose cars bear campus parking permits may park in any legal parking area after 5:30 p.m. weekdays until 7 a.m. the following morning and also in the period from 12:30 p.m. Saturday to 7 a.m. Monday.

Faculty members without permits for daytime parking may obtain a permit for evening parking, if they will apply through their dean's office.

Art exhibit Sunday

An exhibition of more than 50 original works of art by eleven of the internationally known printmakers will begin Sunday, Nov. 22, at the Hetzel Union Building Gallery.

The artists, submitting work by invitation, will each show three to six works representing a variety of media and styles. Etchings, lithographs, woodcuts, and serigraphs will be included.

Among the exhibitors is Mauricio Lasansky, professor of art at the University of Iowa, who has had more than 50 one-man shows and has received more than a hundred honors, prizes, and awards.

Malcolm Myers, of the University of Minnesota, who is one of the exhibitors, will give a talk at 2:30 p.m. Sunday, Nov. 22, at the gallery. A reception will follow the talk.

Insurance benefits

The University's Group Life Insurance policy, covering the lives of employees, is in full force while the employee travels with non-scheduled airlines or on chartered aircraft, A. E. Diem, vice-president for business administration, points out.

Full coverage under the policy is provided at all times, regardless of how or in what manner a life might be lost.

It is also pointed out that most companies will remove aircraft exclusion clauses in whole or in part if a letter requesting the removal is sent to the nearest office or the home office.

Thanksgiving schedule

Pattee Library has announced the following hours for Thanksgiving recess:

Tuesday, Nov. 24—7:50 a.m. to 10 p.m.

Wednesday, Nov. 25—9 a.m. to 5 p.m.

Thursday, Nov. 26—closed

Friday, Nov. 27—9 a.m. to 5 p.m.

Saturday, Nov. 28—9 a.m. to 12 noon

Sunday, Nov. 29—closed

Food Service department has announced the hours dining facilities will be open during the Thanksgiving recess, as follows:

Terrace Room, HUB—closed Thursday, Nov. 26 and Saturday, Nov. 28.

Lions Den, HUB—closed 6:30 p.m. Tuesday, Nov. 24, open Sunday, Nov. 29 at 3:30 p.m.

Waring and Warnock Snack Bars—close 6:30 p.m., Tuesday, Nov. 24 and open at regular time Monday, Nov. 30.

The Hetzel Union Building facilities, other than dining, will be closed Thursday, Nov. 26 and Saturday, Nov. 28.

Senate Minutes

MINUTES OF THE MEETING OF NOVEMBER 5, 1959

The University Senate met at 4:15 p.m. on Thursday, November 5, 1959 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the September 24, 1959 meeting were approved as printed in the Faculty Bulletin for October 9, 1959. 186 senators signed the roll.

Communications from University Officers

Letters naming substitutes were received from senators unable to be present. The substitute is designated in parenthesis following the name of the senator: W. H. Powers (K. V. Manning), F. J. Simes (L. S. Austin), E. P. Strong (Alice Warne), G. K. Nelson (Jay Hirschen), R. C. Maloney (H. J. O'Brien), L. C. Hunt, Eugene Oxhandler, J. R. Hayes (W. G. Braun), R. B. Patrick (W. J. Fae), R. H. Wherry (Rocco Carzo), Joseph Marin (J. W. Breneman), H. W. Dunne (G. E. Burch), R. W. Lindsay (A. I. Muan), Joseph Jordan (Thomas Wartik), Edna Sommerfeld (Elizabeth Ray), M. S. Osborne (L. A. Richardson), N. J. Palladino (A. B. Jacobs), and J. B. Washko (A. S. Hunter).

New Senators

From the College of Chemistry and Physics the names of newly elected senators to serve until July 1, 1960. Raymond Pepinsky to replace J. G. Aston who is on leave, J. J. Fritz to replace W. W. Miller who is on leave, and R. G. Winter to replace R. G. Stoner who is acting head of the Department of Physics while J. A. Sauer is on leave.

From the College of Engineering and Architecture the names of newly elected senators to serve until July 1, 1960. C. G. Reen to replace G. K. Gillan who is on leave, M. W. Isenberg to replace R. E. McCord who is an administrative senator, and C. R. Marsh to replace F. T. Hall who is an administrative senator.

From the College of Home Economics Lavern Henderson was elected to serve for Ruth Pike while she is on leave for the Fall Semester, 1959.

Changes in Senate Committee Memberships

From D. V. Josephson, Chairman of the SENATE COMMITTEE ON COMMITTEES, the following changes in committee memberships which had the approval of President Walker:

Research Policy—Eva Wilson to replace Ruth Pike, Fall Semester, 1959, only.

Scholarships and Awards—A. J. Berlin to replace K. R. Beittel, Fall Semester, 1959, only.

Courses of Study—R. K. Vierck to replace G. K. Gillan for the academic year 1959-1960.

Admissions—C. W. Stoddart, Jr. to replace D. B. Swegan.

Student Affairs, Subcommittee on Academic Honesty, newly appointed members—R. E. Armstrong, Chairman, E. W. Gamble, Jr., H. K. Hutton, Joyce Basch and John Diem, student members.

Student Affairs, Subcommittee on Organization Control, newly appointed members—R. B. Lehman, Chairman, Alex Black, Agnes R. McElwee.

The secretary called attention to the calendar which had been approved on June 15, 1959 and pointed out that the Thanksgiving Vacation will begin on Tuesday, November 24, 1959 at 9:50 p.m.

Reports of Standing Committees

D. V. Josephson, Chairman of the SENATE COMMITTEE ON COMMITTEES, presented the report which had been distributed with the agenda as Appendix "A." He moved acceptance of the report, which amends Article II, Section 1c of the By-Laws, to lie on the table for one month. The motion was seconded. The report contained the following recommendation:

That Article II, Section 1c of the Senate By-Laws be amended to read: Athletics, five members, instead of — Athletics, four members as now written.

The complete report is on file in the office of the secretary.

C. W. Pierce, Vice Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "B." He stated that items 200 and 201 which had been returned to the department for further information had been returned to the Committee and acted upon at a subsequent meeting and were to be included in the items to be approved by the Senate. He moved adoption of the report as corrected including items 197, 198, 199, 199½, 200, 201, and 202. The motion was seconded and passed. The report is on file in the office of the secretary.

J. M. Anderson, Chairman of the SENATE COMMITTEE ON RULES, presented the re-

port which had been distributed with the agenda as Appendix "D," and added the following statement to Section I of the report:

Insert between the words "the Director of Continuing Education" and "the Special Assistant to the President for Student Affairs"—"The Coordinator of Commonwealth Campuses."

Section I of the report now reads: Under Article I, Section 1 of the Constitution—Memberships

Insert between the words "the Director of the Division of Counseling" and "the Associate and Assistant Deans" the words "the Directors of the Commonwealth Campuses."

Insert between the words "the Director of Continuing Education" and "the Special Assistant to the President for Student Affairs"—"the Coordinator of Commonwealth Campuses."

This change will add to the present members of the Senate the Coordinator of Commonwealth Campuses and the Directors of the Commonwealth Campuses. These men are concerned with problems of academic policy and administration as applying to the Commonwealth Campuses.

They also have a broad responsibility for all interests of the University on their respective campuses. Thus they should be members of the Senate.

Mr. Anderson moved that Section I of the report be accepted and lie on the table for one month. The motion was seconded and passed.

Mr. Anderson then presented Section II for the information of the Senate. This section stated the problem of making the Senate Regulations for Undergraduate Students applicable to the students at the Commonwealth Campuses as well as at University Park and recommendations to this end. He asked that other senate committees write rules in the future making them applicable to students at the Commonwealth Campuses. No action was needed on this section at this meeting. Any comments are to be forwarded to Mr. Anderson.

He then presented Section III relative to implementation of the Board of Trustees action to eliminate the word "extension" in favor of "continuing education" on Commonwealth Campuses. The Committee asked for clarification of the functions of the Senate Committee on Extension Policy. This is now under consideration by that Committee. (Secretary's note: A. W. Hutchison stated, later in the meeting, the Committee assumed their title was automatically changed to Senate Committee on Continuing Education Policy, and felt there was no need for any action). The complete report of the Committee on Rules is on file in the office of the secretary.

A. D. Brickman, Chairman of the SENATE COMMITTEE ON ACADEMIC STANDARDS, presented the report which had been distributed with the agenda as Appendix "E." This report referred to the inconsistency in the published policy for admission of undergraduates to "500" courses and contained two recommendations as follows:

A. That the policy of the University on undergraduate registration in "500" courses be defined by the following statement: "A senior student at The Pennsylvania State University lacking not more than 4 credits for graduation may be admitted to the Graduate School. This limit of 4 credits may be increased to 8 in the case of a student with an average of at least B (a grade point average of 3). Other undergraduate students, while not admitted to the Graduate School, may, if their records are superior, be admitted to graduate courses (500 series) upon the approval of the instructor of the course to which the student desires admission."

B. That the sections of the Graduate School Announcement, Undergraduate Catalog, and Senate Regulations for Undergraduate Students that deal with undergraduate registration in "500" courses be modified so as to be compatible with the foregoing policy statement.

Mr. Brickman moved the adoption of these recommendations. The motion was seconded. President Walker commented on the two conflicting rules as published in the Senate Regulations for Undergraduate Students and the Graduate School Announcement. D. H. Ford stated that he was in sympathy with the intent of the proposal but felt that students must meet some kind of standard and therefore proposed the following amendment: He moved that the last sentence of recommendation A be deleted and the following sentence added:

Other undergraduate students, while not admitted to the Graduate School, may be admitted to graduate courses (500 series) upon recommendation of the instructor of the course to which the student desires admission and approval by the Dean of the Graduate School if the student has 1) a cumulative average of B or better, 2) 15 or more undergraduate credits at Penn State in the appropriate subject matter field, and 3) a 3.25 average or better in the 15 or more undergraduate credits.

The motion was seconded. After consider-

able discussion by Messrs. Whisler, Neuberger, Stoner, Kinsley Smith, Curry, Howell, Perez, Brickwedde, and Iline Fife it was moved by Ruth Ayres that a substitute motion be adopted. She moved that

Any senior with a 3.5 grade point average may be admitted to 500 level courses with the consent of the instructor; other undergraduate students may be admitted to such courses with the consent of the instructor and the Dean of the Graduate School.

The motion was seconded. After some discussion on this amendment it was passed. After further discussion on the motion as amended it was passed. The policy of the University on undergraduate registration in "500" courses is as follows:

A. That the policy of the University on undergraduate registration in "500" courses be defined by the following statement: "A senior student at The Pennsylvania State University lacking not more than 4 credits for graduation may be admitted to the Graduate School. This limit of 4 credits may be increased to 8 in the case of a student with an average of at least B (a grade point average of 3). Any senior with a 3.5 grade point average may be admitted to 500 level courses with the consent of the instructor; other undergraduate students may be admitted to such courses with the consent of the instructor and the Dean of the Graduate School."

B. That the sections of the Graduate School Announcement, Undergraduate Catalog, and Senate Regulations for Undergraduate Students that deal with undergraduate registration in "500" courses be modified so as to be compatible with the foregoing policy statement.

The report is on file in the office of the secretary.

R. G. Stoner, Chairman of the SENATE COMMITTEE ON ADMISSIONS, presented the report which had been distributed with the agenda as Appendix "F." This report which referred to the admission of undergraduate students to the University through the Colleges instead of through curriculums contained the following resolution:

Resolved,

1. That the Senate approves the policy of admission of undergraduate students through the Colleges instead of through curriculums, and

2. Recommends that the Faculties of the several Colleges take such actions as may be necessary to implement this recommendation.

Mr. Stoner moved the adoption of the resolution. The motion was seconded and passed. The report is on file in the office of the secretary.

R. E. Larson, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report which had been distributed with the agenda as Appendix "G." This report on Health and Physical Education contained four recommendations as follows:

1. The basic physical education program, presently in effect, as governed by Senate regulations, shall be required of all students and shall be designed to fulfill the aims of objective 13 of the Callenbach report. The program should be available at all campuses of the University.

2. Students should be encouraged to remove the health education requirement by examination. (A comprehensive examination has been developed by the College of Physical Educational and Athletics for this purpose.)

3. Students of advanced age and those physically handicapped shall be assigned to physical education programs suitable to their needs. (Exceptions for this are provided for under Rule T-1.)

4. Credit shall be given for required courses in physical education.

Mr. Larson moved adoption of the recommendations. The motion was seconded. Thomas Wartik, substituting for Joseph Jordan, moved that action on this report be deferred until the December meeting of the Senate. The motion was seconded and lost. Mr. Stoner moved that recommendation number four be amended as follows:

Credit shall be given for required courses in physical education but grade points shall not be assigned. Credit shall be assigned either as passed or failed.

Warren Smith moved that recommendation number four be referred back to the Committee. The motion was seconded and passed. The report is on file in the office of the secretary.

Mr. Larson presented the following report of the Educational Policy's subcommittee on Improvement of Instruction for the Information of the Senate:

For more than a calendar year a subcommittee on Improvement of Instruction consisting of R. E. Armstrong, H. A. Finch, K. H. Fisher, A. J. Shaler, L. L. Werboff, and P. M. Althouse, Chairman, has been considering problems and developing proposals which they feel will lead to improvement of instruction. The subcommittee divided their considerations into two broad categories, namely; (1) suggestions generally applicable which relate to improvement of instruction without in-

volving changes in class or section size or changes in instructional organization and (2) suggestions concerned specifically with the anticipated rapid growth of student population and the proposed less rapid increase of the faculty. The subcommittee has completed their consideration of the former which in the interest of clarity they further subdivided into the three main categories of A) Courses of Study, B) Students and Learning, and C) Teachers and Teaching.

Under "courses of study" the subcommittee has considered credits and contact hours, special examinations for removal of failures, registration and examination periods, required attendance and problems of multiple section courses. Under "students and learning" they discussed advising, learning to learn, scheduling of study load, improving learning capacity, and raising of scholastic standards. In the category of "teachers and teaching" proposals have been made relative to teaching devices, guidance for new instructors, evaluation of teachers, recognition of superior teachers, course content, examination techniques, suitability of class rooms and others.

Each problem is considered and presented in four phases: 1) a description of the existing situation and need for improvement, 2) a statement of the suggestion, 3) arguments for and against, and 4) the mechanism proposed for implementing a suggestion.

The reports pertaining to the three parts already mentioned contain many excellent suggestions to be considered for implementation by Deans, Department Heads, and for consideration by other Senate Committees as well as the Educational Policy Committee.

The parent committee has therefore requested the subcommittee to distribute copies of their report to the other Senate Committees who might be concerned. Senators are also advised that copies of these reports are on loan through the Secretary of the Senate.

(Copies of these reports are on loan through the Secretary of the Senate).

Unfinished Business

F. R. Matson, Vice Chairman of the SENATE COMMITTEE ON RESEARCH POLICY, presented the report of the Committee as revised at its meeting on October 7, 1959, and which had been distributed with the agenda as Appendix "C." Mr. Matson asked that the last sentence in recommendation one of the PROPOSAL ON STAFF MEMBERS TIME FOR RESEARCH AND OTHER SCHOLARLY ACTIVITIES be changed to read:

It is recommended as an objective that a minimum of one quarter of the total departmental program be devoted to these activities.

He then moved that the recommendations as changed be adopted. The motion was seconded and passed. The recommendations are as follows:

To encourage research and other scholarly activities, the following University Policy is recommended:

1. Staff members in all the professorial ranks are urged to engage in research or other scholarly activity as part of their University duties. Time for this purpose should be allocated by the department head or scheduling committee in accordance with the demands of the total departmental program. It is recommended as an objective that a minimum of one quarter of the total departmental program be devoted to these activities.

2. It is proposed that the responsibility for implementing this policy rest primarily with the Department Head or Chairman with the support of the Dean of each College.

A. W. Hutchison, Chairman of the SENATE COMMITTEE ON RESEARCH POLICY, stated that the Committee assumed their title was automatically changed to the Senate Committee on Continuing Education Policy and felt that there was no need for any action on this part of the Rule Committee recommendation in Section III as presented at this meeting.

The next regular meeting of the University Senate will be on Thursday, December 3, 1959, in Room 121 Sparks Building. The agenda will be distributed on November 19, 1959. The meeting adjourned at 5:20 p.m.

Robert G. Bernreuter
Secretary

Christmas trees for sale

University departments may purchase fire-proofed Christmas trees through the department of maintenance and utilities, which will accept orders until Dec. 15. An interdepartmental transfer form must be used in ordering, indicating tree size and delivery date.

Price of trees is as follows: 3-4 foot tree, \$2.50; 5-7 ft., \$4.00; 8-10 ft., \$5.50; 10-12 ft., \$6.50; and 12-15 ft., \$8.50.

Items of Interest

• Articles and Papers

C. H. Schug, speech, a paper titled "Twenty Years of Speech Education in Pennsylvania" at the Penna. Speech Association Convention at Philadelphia.

T. Cheng, zoology and entomology, two papers on control of livestock insects, and H. W. Frings, zoology and entomology, a report on his studies of meadow grasshoppers, before the 7th annual meeting of the Entomological Society of America, Nov. 30.

Ruth L. Pike, foods and nutrition, co-author of two papers appearing in The Journal of Nutrition, titled "Some Effects of Isonicotinic Acid Hydrazide-Induced Vitamin B6 Deficiency in Pregnant Rats," and "Changes in Hemoglobin, Hemacrit, and Plasma Protein in Vitamin B6 Deficient Rats During Pregnancy."

W. T. Nearn, wood utilization, a paper titled "Discovering and Sustaining Research Talent," and R. E. McDermott, forestry, a paper on "Discovering and Training Future Researchers in Forestry," at the 59th annual meeting of the Society of American Foresters this week.

B. M. Siegenthaler, clinical speech, co-author of an article titled "Abbreviated Sweep-Check Procedures for School Hearing Testing" in the Journal of Speech and Hearing Disorders. Also co-author of an article, "Intelligibility Scores Using Various Phonetically Balanced Word Lists," in the 1959 Speech Annual.

N. C. Pendered, industrial arts education, an article, "Non-Metallic Electroplating" in the current issue of School Shop.

Robert Enggass, history of art and architecture, an article, "Three Little Known Paintings from Gaulli's Early Years in Rome," in the October issue of "Gazette des Beaux-Arts."

J. H. Britton, child development and family relationships, a paper titled, "Expectation for Older Persons by Residents of a Rural Community: Solution of Personal Problems and Use of Sources of Help," at the national meeting of the Gerontological Society last week.

• Lectures and Talks

B. W. Niebel, industrial engineering, an address on "Applying Predetermined Time Systems Successfully," at the 23rd annual Industrial Management Society Clinic, Nov. 5 in Chicago.

H. A. Panofsky, meteorology, a discussion of his research on the relation between weather patterns at different altitudes, before the Minneapolis meeting of the American Meteorological Society.

P. S. Skell, chemistry, a talk on

"Chemistry of Bivalent Carbon Intermediates," yesterday at the American Chemical Society meeting at Purdue.

At meetings of the Hospital Association of Pennsylvania at Bedford Springs, W. L. Muschlitz, engineering research, on "Importance of Records in Planning New Facilities"; and Fred Nicholas, also engineering research, on "Obligations and Responsibilities of the Design Consultant to the Hospital."

C. R. Carpenter, Academic Research and Services, an address titled "Where We Stand in Research on Education Television" at a symposium on "Education and the New Media" at the Center For Advanced Study in the Behavioral Sciences at Stanford, Calif.

Dorothy J. Lipp, dean of women, an address titled, "The Melody of Friendship is Created from the Harmony of Cooperation," before women undergraduates and alumnae of Syracuse University Nov. 21.

• Books

R. B. Helfgott, economics, author of a section on the garment industry, in the book, "Made in New York."

• Elected or Appointed

E. A. Walker, president, elected to the 12-member Executive Committee of the American Association of Land-Grant Colleges and State Universities. Also the following appointments in the Association: M. A. Williamson, Engineering and Architecture, secretary of the Division of Engineering, and H. K. Schilling, Graduate School, chairman of the Council on Graduate Work.

W. F. Workmaster, Library, elected secretary of the Pennsylvania Historical Association.

C. H. Schug, speech, appointed to the nominating committee of the Debating Association of Pennsylvania Colleges Convention.

L. H. Sommer, chemistry, appointed chairman of the Committee on Organometallic Chemistry of the American Chemical Society.

Dennis to give report

Lawrence E. Dennis, vice president for academic affairs, will speak on "Some Observations on Public Leadership" at the weekly Faculty Luncheon Club meeting on Monday, Nov. 23 at 12 noon in HUB dining room "A".

The talk will be in the form of a preliminary report on the Fund for Adult Education project, "Education for Public Responsibility." Dennis has served as consultant to the Fund for the past six months, conducting a series of interviews with a number of public leaders concerning their thoughts on what the nation's colleges and universities should be doing to educate more citizens for public responsibilities in the decade ahead.

Calendar

Friday, Nov. 21

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. T. F. Bates, professor of mineralogy, on "Weathering and Clay Formation in Hawaii."

Fluid Mechanics Seminar, 4:15 p.m., Room 102 Sackett. Nunzio J. Palladino, head of the department of nuclear engineering, on "Survey of Fluid Mechanics Problems in Nuclear Reactors."

Lecture by Dr. W. H. Brattain, research physicist, Bell Telephone Laboratories, at meeting of chemistry and physics teachers of Commonwealth Campuses, 7:30 p.m., Room 119 Osmond, on "The Physics of Semiconductors."

Folk Song concert by Pete Seeger, 8 p.m., Schwab Auditorium, sponsored by the University Christian Association.

Saturday, Nov. 21

Soccer, vs. Pittsburgh, 10 a.m.
Graduate Student Square Dance, 8:30 p.m., HUB ballroom. Faculty invited.

Sunday, Nov. 22

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Reverend Theodore Braun.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Efan Reece, permanent representative in Europe, Commission of the Churches on International Affairs.

Opening of exhibition of prints at HUB art gallery. Talk by Malcolm Myers, associate professor of art, University of Minnesota, and reception to follow.

Artists Series program by the Pittsburgh Symphony Orchestra, 8 p.m., Recreation Building.

Monday, Nov. 23

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Lawrence E. Dennis, vice-president for academic affairs, on "Some Observations on Public Leadership."

WDFM (student station) broadcast of the opera, "The Tenor," by Hugo Weisgall, distinguished visiting professor of music, 8-9 p.m., with A. G. Tsugawa, instructor in philosophy, as commentator.

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A". M. G. Sharma, graduate assistant, on "Material Damping and Associated Resonant Fatigue Problems."

Tuesday, Nov. 24

Classes end at 9:50 p.m., for Thanksgiving recess. Resume Monday, Nov. 30 at 8 a.m.

Monday, Nov. 30

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Capt. Stuart E. Kane, Jr., assistant professor of air science, on "The Flight Instruction Program of Seniors in Air Force ROTC."

Thanksgiving recess ends, 8 a.m.
Lecture by Dr. Francis Birch, distinguished visiting professor of physics, Dunbar Laboratory, Harvard University, on "The Deep Interior of the Earth: Mantle and Core."

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A". Walter Jaunze-mis, assistant professor, on "Thermal Stresses in the Plastic Range."

Tuesday, Dec. 1

Home Economics Research Seminar, 12:30 p.m., dining room "A", Hetzel Union Building. Dr. Mary L. Dadds, professor of foods and nutrition, on "Dental Caries in Experimental Animals."

Wednesday, Dec. 2

Forestry convocation, 11 a.m., Room 121 Sparks Building. Orvel A. Schmidt, associate professor of forestry, an illustrated lecture on "Panama Today."

Fall meeting of the Social Science Research Center, 8 p.m., dining room "A", Hetzel Union Building. Dr. Sidney Siegel, philosophy department, on "Decision Making and Choice Behavior: Theoretical Models and Experimental Tests." Discussants: Dean H. Schilling and Dr. Henry Finch.

Graduate Mining Seminar, 3 p.m., Room 24 Mineral Industries. J. V. Tingley on "New Shaft Sinking Methods."

Concert by the Penn State Singers, Raymond Brown conducting, 8 p.m., HUB assembly room.

Chess Club meeting, 7 p.m., HUB card room.

Thursday, Dec. 3

University Senate meeting, 4:15 p.m., Room 121 Sparks.

Friday, Dec. 4

Artists Series program by "The Shakespeare Festival Players," 8:30 p.m., Schwab Auditorium. (Also Saturday, Dec. 5).

Opening night of Players production at Center Stage of Henrik Ibsen's, "John Gabriel Borkman."

Folk song concert tonight

Pete Seeger, well known folk musician, will present a concert at 8 p. m. tonight in Schwab Auditorium, sponsored by the University Christian Association. Proceeds will go to the U.C.A. Conference Scholarship Fund.

Earth is lecture subject

Dr. Francis Birch, distinguished visiting professor of geophysics at Harvard University, will present a lecture titled, "The Deep Interior of the Earth: Mantle and Core," on Monday, Nov. 30, at 8 p.m. in the Mineral Industries Auditorium.

The lecture is sponsored by the department of geophysics and geochemistry and is open to the public.

Orchestra program Sunday

The Pittsburgh Symphony Orchestra, will feature the music of Gabrieli, Beethoven, and Bruckner in its Artists Series program Sunday, Nov. 22, 8 p.m. in Recreation Building.

William Steinberg conducts the orchestra, which will play Beethoven's Eighth Symphony and Bruckner's Fourth Symphony. Gabrieli's "Sonata Pian e Forte for Two Instrumental Choirs" will open the program.

On Friday, Dec. 4, and Saturday, Dec. 5, the Shakespeare Festival Players will present "The Tempest" and "Measure for Measure" in Schwab Auditorium. Tickets for these shows will go on sale at the HUB desk on Tuesday, Dec. 1.

Weisgall opera on radio

A one-act opera, "The Tenor" by Hugo Weisgall, distinguished visiting professor of music, will be presented over WDFM, student operated radio station, on Monday, Nov. 23, from 8 to 9 p.m.

Albert G. Tsugawa, instructor in philosophy, will interview Weisgall and discuss the opera.

The opera is based on "Der Kammeranger," a play by Frank Wedekind and the libretto was written by Karl Shapiro and Ernest Lert. It was given its world premiere in 1952 by the Peabody Opera Company and was conducted by Weisgall. WDFM will play the Westminster recording, conducted by Herbert Grossman.

WMAJ will also carry the program.

Senate meets Dec. 3

The University Senate will meet next on Thursday, Dec. 3 at 4:15 p.m. in Room 121 Sparks Building.

faculty BULLETIN

Vol. 47, No. 11

Nov. 20, 1959

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Arthur F. Davis,
229 Rec Hall.

faculty BULLETIN

Weekly Publication
of Pennsylvania
State University

Personnel matters

Edward A. Adams, who has served on the faculties of Wheaton College, Bob Jones University, and the University of Minnesota, has been named assistant professor of studio art. He is a graduate of North Carolina State College with a master of fine arts degree from Cranbrook Academy of Art. He has also done post-graduate work at the University of Cincinnati and the Institute of Design in Chicago.

Robert H. Thompson, formerly district administrator for the Southeastern Region for Continuing Education, has been assigned as program coordinator in the office of the assistant dean for Continuing Education in the College of Business Administration.

Charles W. Mann, Jr., who has been rare books and manuscripts assistant at the Pattee Library, has been named curator of Rare Books and Manuscripts, to recognize the growing importance of the collections and to provide for more effective administration of them.

Ruth W. McHenry, who has been in the nursing profession for 25 years and for the past seven years director of nursing at Nesbitt Hospital, Kingston, has succeeded Jane Brinton as coordinator of nursing education in Continuing Education Services. Miss Brinton is now assistant dean of nursing education at the University of Missouri. **Mrs. Eleanor G. Rogers**, formerly instructor in psychiatric nursing at Philadelphia State Hospital, has joined the staff as assistant coordinator of nursing education.

Dr. Ralph G. Ascah, associate professor of chemistry, has been placed in charge of the pre-medical and science curriculums in the College of Chemistry and Physics.

Burma proud and confident country

THE people of Burma are proud and confident and even though they practice many aspects of socialism in their government, they are resisting Communism with a great will.

Dr. George A. Theodorson, assistant professor of sociology, and his wife Lucille came away from Burma with those impressions after spending nine months in Rangoon, Dr. Theodorson as a Fulbright lecturer at the University of Rangoon, and Mrs. Theodorson as an English teacher for the Burma-America Institute.

"Communists," says Dr. Theodorson, "were plainly evident in Burma and were extremely vocal, but the Ne Win government is fighting a good battle and at least for the present the people are generally resistant to the entreaties of the trained agents in their country."

"On more than one occasion Communists went into long denunciations of the United States and what they called 'American imperialism' in our presence, but the non-communist Burmese, a majority, showed that they had little enthusiasm for such talk."

"I think the Burmese can be best characterized as wanting to be left alone, without interference from either of the world power blocs. They are very proud, independent, and nationalistic people, perhaps much as we were after our own political independence."

It is pointed out that Burma has a program of socialized medicine, college education is virtually free, and the government controls the sale of rice and

teak wood as well as other products. Government production of inexpensive medicine and drugs is an understandable development in a country with vast health problems and few doctors. The people must often be their own doctors, Dr. Theodorson explains, with whatever help the government can offer.

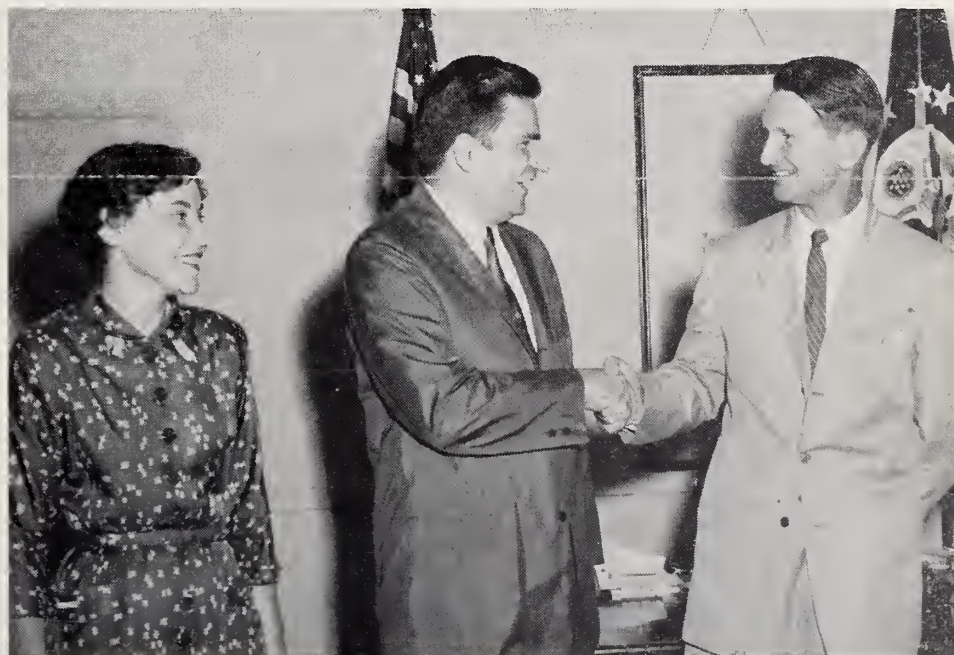
It was not the political life of Burma which impressed the Theodorsons most, however, as interesting as that story is, but rather the people themselves.

"They seemed a little difficult to get to know," Dr. Theodorson explains, "yet by the time we had left we were overwhelmed by the display of warmth and friendship they exhibited. In our home we have many prized gifts from our Burmese friends, most from people who had little material wealth of their own."

"Burma is a wealthy country," Dr. Theodorson explains, "in terms of its natural resources and future potential, but there is today a rather low standard of living as we measure it. In Mrs. Theodorson's class in English there were very intelligent and ambitious men over thirty years of age who lived at the home of their parents because they could not afford to get married and start a home of their own. Such cases are not unusual in the Far East."

"Socialism has a strong attraction for the political leaders of Burma," Dr. Theodorson points out, "but free enterprise flourishes in the shops and stores. Unfortunately for the Burmese, prior

(Continued on page three)



Dr. George A. Theodorson, center, assistant professor of sociology, and his wife Lucille are welcomed to Burma by U. S. Ambassador Walter P. McConaughy last year, before beginning their stay there during the academic year. He taught at the University of Rangoon and she at the Burma-America Institute.

Items of Interest

• Articles and Papers

At the Applied Mechanics Division sessions of the American Society of Mechanical Engineers meeting in Atlantic City, the following papers: "Transient Thermal Stresses in a Semi-Infinite Slab," by Walter Jaunzemis; "Material Design for Resonant Members," by Joseph Marin and M. G. Sharma; "On the Plastic Behavior of Rotating Cylinders," by F. P. J. Rimrott; and "Transient Analysis of Stress-Wave Penetration in Plates," by Norman Davids.

R. M. Barnoff, civil engineering, a paper on Pony Truss Bridges at the national convention of the American Society of Civil Engineers in Washington, D.C.

Samuel Shulits, civil engineering, a paper titled "Talweg Stability in Natural Channels," before the geomorphology section of the Geological Society of America.

N. C. Pendered, industrial arts, an article on leathercraft in the November issue of Industrial Arts and Vocational Education.

C. J. Schaefer, industrial education, an editorial titled "The Establishment of Two-Year Post Institutes—A Challenge to Each of Us" in the September issue of the Ohio Vocational Association Reporter.

E. R. Queer, engineering experiment station, a paper titled "Heat and Water Vapor Transmission Criteria for Sandwich Panels and Curtain Walls" before the Building Research Institute Conference, with E. R. McLaughlin, also engineering research.

James Gemmell, an article, "Closing the Gap in Education" in the Oct. 24 issue of "School and Society."

H. E. Dickson, art and architecture, an article, "Barnard's Sculptures for the Pennsylvania Capitol," in "The Art Quarterly."

• Lectures and Talks

J. E. Montgomery, housing and home art, a talk on "Housing Values and Their Implications," at the central district meeting of the Pennsylvania Home Economics Association, at Huntingdon.

W. L. Muschlitz, engineering research, a talk on "Efficient Power Plant Operation" before the Institute on Hospital Engineering conducted by the American Hospital Association.

James Gemmell, education, a talk, illustrated with colored slides, on his impressions of the Soviet Union, before the Philadelphia section of the American Chemical Society.

W. A. Weyl, glass technology, a lecture on "Probabilities of Producing New Colors in Glasses and Pigments" before

the Northwestern Ohio Section of the American Ceramic Society.

Harold P. Zelko, speech, gave the keynote speech at the leadership training workshop at the State University of New York on the various types and ways one becomes a leader.

M. A. Williamson, Engineering and Architecture, a talk titled "Electricity, the Gateway to Educational Progress," at a luncheon opening the 7th annual Industrial Electrical Exposition in Pittsburgh. He spoke also at the luncheon meeting of the New Kensington Rotary Club on "Problems in Engineering."

H. E. Dickson, history of art and architecture, a lecture on "George Grey Barnard, Neglected Pennsylvania Sculptor" in the Pennsylvania Life and Culture Series at Harrisburg this week.

L. H. Sommer, chemistry, an address titled "Optically Active Organosilicon Compounds" at a Symposium on Organometallic Chemistry, at the Southwest Regional Meeting of the American Chemical Society meeting in Baton Rouge.

• Elected or Appointed

C. H. Schug, speech, appointed to Committee on Alumni Relations, National Society of Delta Sigma Rho.

M. E. Campbell, student affairs, elected to the executive committee, Pennsylvania Association of Student Personnel Administrators.

T. F. Wagner, Slavic languages, appointed chairman of a literature section at the 16th annual meeting of the American Association of Teachers of Slavic and East European Languages in Chicago Dec. 27. He is regional vice-president.

F. A. Kohler, Jr., civil engineering, appointed to the committee on "Training in Public Health" of the Environmental Health Section of the Pennsylvania Public Health Association.

P. W. Fletcher, forestry, elected vice-president of the Council of Forestry School Executives at its annual meeting at the University of California.

James Gemmell, secondary education, appointed university program director of the National Committee for Education in Family Finance at its annual meeting in Chicago.

• Books

P. W. Knepp, forging and welding, and B. K. Bristol, agricultural education, a book on the basic principles of forging and welding.

Weisgall at PBK dinner

Dr. Hugo Weisgall, distinguished visiting professor of music, will be the speaker at the Phi Beta Kappa Founder's Day dinner on Monday, Dec. 7 at 6:30 p.m. at the Nittany Lion Inn.

He will speak on "Words and Music."

Talk on Michelangelo

Dr. Martin Weinberger, visiting professor of art and architectural history, will speak on Tuesday, Dec. 8 on "The Unfinished Masterpiece: Michelangelo's Medici Chapel," at 8 p.m. in Room 121 Sparks.

This is the third talk in the Liberal Arts Lecture Series and is co-sponsored by the department of art.

The chapel which is the subject of the talk was begun by Michelangelo for the Medici family in Florence, Italy, but was finished by his pupils after Michelangelo left Florence because of ill health and other complications.

Next semester Dr. Weinberger plans to give a seminar on Michelangelo on the 400-level. He is currently giving a survey course in the history of art and architecture and also a graduate seminar on early Flemish painters.

UCA Colloquy tomorrow

"The Role of Commitment in a University" is the theme of the University Christian Association Faculty Colloquy to be held tomorrow (Saturday) from 2 p.m. to 8:30 p.m. at the Nittany Lion Inn.

Dr. Kenneth I. Brown, executive director of the Danforth Foundation, will address the Colloquy at 2 p.m. on "Religious Commitment and the University."

At 4:15 p.m. a panel consisting of Dr. Mary Dodds, Dr. Walter Coutu, and Dr. Robert Tschan will discuss "The Types of Commitment Found in a University."

The third session will begin at 7:15 p.m. and will also be a panel discussion. Drs. J. Mitchell Morse, Ray Pepinsky, and Rustum Roy will discuss "The Commitment of the Self and the Freedom of the Mind."

Shoemaker poetry in book

Brant Shoemaker, instructor in English at Ogontz Center, is author of "Taps and Other Poems" published by Dorrance and Co., Philadelphia. The volume consists of war and post-war poems.

Critic Louis Untermeyer describes the work as "full of grim and graphic pictures, bitter and bloody, but lifted by a sense of deep compassion."

Parking committee named

Harold P. Zelko, professor of speech, Kinsley R. Smith, professor of psychology, and Reed Ferguson, director of University relations, have been named to the Faculty-Staff Parking Review Committee. The committee is provided for in the campus parking and traffic regulations to ensure each employee the right to request, in writing, a hearing within four days of a violation.

Burma—

(Continued from page one)

to independence, the British and Indians controlled most of the trade because the Burmese were inexperienced businessmen. They were trusting people with very little understanding of the newly introduced highly competitive tactics. The foreigners soon owned most of Burma's agricultural land."

Today a great deal of the privately owned businesses are run by Burmese women. The Burmese woman has always had a very high position in life, and her traditional freedom is expressed in her very lively interest and talent in the business world."

Buddhism is the major religion in the country although of course, there are Hindus, Moslems, and Christians. The Christians are about 2 per cent of the populations, and the great majority of Christians are Baptists. The Burmese Buddhists make religion an important part of their every day life, and every village has a pagoda. Rangoon and Mandalay, the principal cities, have some of the most beautiful pagodas. The Smwe Dragon (Golden Village) Pagoda in Rangoon is one of the most impressive and beautiful sights in the world, says Dr. Theodorson.

Music is important in Burmese life. American popular music has invaded the country as have very few other American ways. Burmese are avid movie-goers and love pictures from our country, although they are quite talented movie-makers themselves, and enjoy their own films as well.

The Theodorsons acclimated themselves rather well to Burmese food and customs. The diet in Burma is mainly rice, and this is natural because Burma is one of the leading rice producers of the world.

"But we had many exotic Eastern dishes there," Mrs. Theodorson describes, "for example prawn chips,

goatburgers, fungus, seaweed, sharkfin soup, and purple fish paste with curry. The superb Burmese rice, incidentally, costs only 5 cents per pound.

"Our culinary experiences have had some effect since we came home. Rice was so plentiful and of such high quality that we now often find ourselves cooking rice instead of the usual potatoes."

During his stay, Dr. Theodorson not only lectured on American society and conducted an advanced graduate seminar, but also did research related to studies he has made here. Before going to Burma, he conducted a survey among 1,500 Penn State students on future husband-wife role expectations. At the University of Rangoon he conducted an identical survey among Burmese students, which should make a very interesting comparison with the attitudes of our American students.

Of the students, Dr. Theodorson says that some would be quite successful at Penn State and he has encouraged students and staff to come to study in the United States, and come to know more about the American people. The Burmese college student speaks at least two languages, with English very common.

"Unfortunately few of these students have money enough to go abroad to college and would need help from their government," Dr. Theodorson explains.

The Theodorsons didn't confine their year's absence from the campus to Rangoon. They travelled by plane, boat, jeep, pony cart, and dugout to almost every part of Burma.

Using Rangoon as a home base they also ventured to various part of Thailand (Siam) and Cambodia and in returning to this country came via India, Pakistan, Iran, Syria, Egypt, Turkey, Greece, and Western Europe, and on the way to Burma had visited Hawaii, Wake Island, Japan and Hong Kong. In all they were in 23 countries in their 13 months outside of the United States.

Dr. Theodorson is no stranger to the Pacific area, having served both north and south of the equator in an amphibious tank battalion during World War II.

In Thailand they met Senator Fulbright, who was there in the interests of our government, and in India they travelled and discussed world problems with members of the Indian Parliament and officers of the Indian Army.

"But in Europe we had some great thrills too," says Mrs. Theodorson. "I met many pen pals there; an English friend and I have been writing since the Battle of Britain. During the terrible war years we had sent clothing to a number of families. On our trip through Europe we lived for a week in a remote part of the Bavarian forests, only a stone's throw from Communist Czechoslovakia, with a woodsman and his family who were deeply impressed that the former enemy would send them clothes immediately after the war.

"When we knocked at the door of these homes we would say 'Hello, we're George and Lucille,' and after a period of silence, disbelief, confusion, and then understanding, we were instantly made to feel like very old and dear friends. Some we hadn't written to in ten years."

After a few weeks in Burma, the Theodorsons were received in a like manner in homes there, and were treated to such unusual experiences as a Hindu Indian fire-walking, a Moslem-naming ceremony, the Burmese water festival, and a garden party given by the President of Burma at the Presidential Mansion. They were very favorably impressed by the Burmese people.

"The Burmese philosophy," Dr. Theodorson concludes, "is to adjust to life, and to make the best of what they have. Of course, Burma is changing, but I hope they never lose their sensible, happy approach to life."

Folklore archives

An archive for Pennsylvania folklore has been established at the Pattee Library. Initial deposit in the archives is a group of materials from the Pennsylvania Folklore Society.

The archives will include books, films, manuscripts, music, and recordings, as they become available.

Florence Taylor dies

Dr. Florence E. Taylor, professor of elementary education, died on Tuesday, Nov. 17, at the age of 67. She joined the faculty in 1940 after teaching at Columbia University from 1927 and had previously taught in the Michigan public schools.

NSF summer fellowships

The Graduate School office urges faculty members to remind outstanding graduate students in certain fields that Dec. 11 is the deadline for receiving, at the office, complete application materials for National Science Foundation Summer Fellowships for Former Teaching Assistants for 1960.

Awards are for 8 to 12 weeks study in the summer, with a weekly stipend of from \$50 to \$75 per week and tuition.

Students who have been teaching assistants in the following fields of science are eligible to apply: physical, biological, mathematical, mineral, engineering, anthropology, psychology (excepting clinical), geography, and certain selected social sciences.

Shakespeare tonight

"The Tempest" and "Measure for Measure" will be presented by The Shakespeare Players program on the Artists Series this weekend. The former is scheduled for Schwab Auditorium Friday, Dec. 4 at 8:30 p.m. and again Saturday at 2:30 p.m. "Measure for Measure" is to be given at 8:30 p.m. on Saturday. Arnold Moss heads the cast in these productions.

Bursar closes Saturday

The Office of the Bursar in Willard Building will be closed on a trial basis each Saturday through January 2. Normal hours for the office will be Monday through Friday, 7:45 a.m. to 4:45 p.m.

Calendar

Friday, Dec. 4

Artists Series program by "The Shakespeare Festival Players," 8:30 p.m., Schwab Auditorium. (Also Saturday, Dec. 5).

Opening night of Players production at Center Stage of Henrik Ibsen's, "John Gabriel Borkman."

Fluid Mechanics Seminar, 4:15 p.m., Room 102 Sackett. Nunzio J. Palladino, head of the department of nuclear engineering, on "Survey of Fluid Mechanics Problems in Nuclear Reactors."

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. C. O. Ingamells, chief analyst, mineral constitution laboratory, on "The Critical Ingredients of a Good Chemical Analysis."

Saturday, Dec. 5

University Christian Association Faculty Colloquy on "The Role of Commitment in a University" beginning at 2 p.m., Nittany Lion Inn.

Artists Series program by The Shakespeare Festival Players, 2:30 p.m., "The Tempest" and at 8:30 p.m., "Measure for Measure." Schwab Auditorium.

Center Stage production of Henrik Ibsen's "John Gabriel Borkman," 8 p.m.

Sunday, Dec. 6

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Rev. Theodore Braun.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Kenneth I. Brown, executive director, The Danforth Foundation.

Monday, Dec. 7

Phi Beta Kappa Founder's Day dinner, 6:30 p.m., Nittany Lion Inn. Dr. Hugo Weisgall, distinguished visiting professor of music, will speak on "Words and Music."

Lecture by Dr. Francis Birch, Harvard University, on "The Deep Interior of the Earth: Mantle and Core," Mineral Sciences Auditorium, 8 p.m., sponsored by the department of geophysics and geochemistry.

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A". E. E. Headington, instructor, on "Solution of the Spherically Symmetric Case of Cavitation under High-Shear Impact."

Faculty Luncheon Club meeting, 12 noon, dining room "A", Hetzel Union Building. Dr. M. A. Williamson on "Some Dilemmas in Engineering Education."

Tuesday, Dec. 8

Liberal Arts Lecture Series, 8 p.m., Room 121 Sparks. Dr. Martin Weinberger, visiting professor of art and architectural history, on "The Unfinished Masterpiece — Michelangelo's Medici Chapel." Co-sponsored by the department of art.

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. H. W. Koch, chief, high energy radiation section, National Bureau of Standards on "The Proposed NBS High Intensity Electron Accelerator Program."

Philosophy Colloquium, 4:15 p.m., Hetzel Union Building Room 215. Chaminah Marienthal, instructor in philosophy, on "Peirce's Search for a Philosophical Method."

Festival of Carols by the Meditation Chapel Choirs, directed by James W. Beach, Helen Eakin Eisenhower Chapel, 8 p.m.

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. J. J. Kaufman, associate professor of economics, on "Featherbedding on the Railroads."

Academic Year Science Institute meeting, 4 p.m., Room 100 Weaver. Dr. George L. McNew, director of the Boyce Thompson Institute for Plant Research on "Botany and Plant Pathology as a Science."

Wednesday, Dec. 9

Simmons Series readings of poetry by David Wagoner, 8 p.m., Room 121 Sparks.

Forestry Convocation, 11 a.m., Room 121 Sparks. Dr. William E. Reifsnnyder, Yale University, on "Fire Research."

Graduate Mining Seminar, 3 p.m., Room 24, Mineral Industries. David G. Mickie, on "Comparison of Underground Filling Methods."

Thursday, Dec. 10

Biological Sciences lecture, 4:15 p.m., Room 112 Buckhout. Dr. H. W. Siegelman, plant pathologist, U.S.D.A. Beltsville Research Center, on "The Photoresponsive Development of Plants."

College of Business Administration faculty meeting, 4:15 p.m., Room 111 Boucke.

College of Home Economics faculty meeting, 4:15 p.m., Room 14, Home Economics.

Faculty meeting, College of Mineral Industries, 4:15 p.m., Mineral Industries Auditorium.

Friday, Dec. 11

Fluid Mechanics Seminar, 4:15 p.m., Room 102 Sackett. Louis M. Glymph, Jr., chief, Watershed Technology Research Branch, Soil and Water Conservation Research Division, U.S. Dept. of Agriculture, of "Watershed Research in the Agricultural Research Service."

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Francis Birch, Harvard University, on "Elastic Properties of Rocks."

Wagoner in Simmons Series

David Wagoner, widely known poet, graduate of Penn State and formerly a teacher at University Park, Ogontz, and DuBois, will present readings of poetry on the Simmons Series program of Wednesday, Dec. 9 at 8 p.m. in Room 121 Sparks.

In addition to his own poems, Wagoner will read works of other writers, including some younger west coast poets.

Wagoner, who earned the degree of master of arts at Indiana in the program of creative writing, is author of five volumes of poetry and fiction.

Earth subject of lecture

Dr. Francis Birch, of Harvard University, and distinguished visiting professor of geophysics, will give a lecture of interest to the public on Monday, Dec. 7 at 8 p.m. in the Mineral Industries Auditorium in Room 26, Mineral Sciences.

He will speak on "The Deep Interior of the Earth: Mantle and Core."

ACS meeting Thursday

Dr. Aksel Bothner-By, of the Mellon Institute, Pittsburgh, will address the regular meeting of the Central Pennsylvania Section, American Chemical Society at 8:30 p.m. on Thursday, Dec. 10 in Room 119 Osmond.

He will speak on "Reactions of Radical Ions Derived from Aromatic Hydrocarbons."

Biology series lecture

Dr. H. W. Siegelman, plant physiologist, Beltsville Research Center, U.S. Department of Agriculture will present the next lecture in the Biological Sciences Lecture Series on Thursday, Dec. 10 at 4:15 p.m. in Room 112 Buckhout.

He will speak on "The Photoresponsive Development of Plants." Dr. Siegelman is widely known for his work on the effects of light on plant behavior.

Ibsen play at Center Stage

Henrik Ibsen's play, "John Gabriel Borkman," will be performed by Players at Center Stage beginning tonight (Friday) and continuing tomorrow night as well as Dec. 11 and 12, and January 8, 9, 15 and 16.

Directed by Warren Smith, associate professor of theatre arts, the production will feature Cameron D. Iseman, instructor, in the title role.

Curtain time is 8 p.m.

faculty BULLETIN

Vol. 47, No. 12

Dec. 4, 1959

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Mairs, Mrs. T. I.
Cent Library

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University



The Chapel Choir, under the direction of Willa C. Taylor, professor of music and music education, will give its traditional Christmas program on Saturday in Schwab Auditorium, one of the many Christmas observances on campus.

Christmas Observance Noted

THE 12th annual Candlelight Service will be sung by the University Chapel Choir, under the direction of Willa C. Taylor, on Saturday, Dec. 12 in Schwab Auditorium. Doors will open at 10:30 p.m.

George E. Ceiga, University organist, will open the service with a prelude recital, which will include music by Karg-Elert, Richard Purvis, Bach, Alec Rowley and Pachelbel.

The Rev. Preston N. Williams, acting University chaplain, will be in charge of the Service of Christmas Lessons and Music. Following the Introit, the traditional candlelight procession will be held, and the congregation and choir will sing familiar Christmas hymns.

The Choral program will include "Descende in hortum meum," by Anton

Fevin; "Rorate coeli desuper" by Palestrina; "Antiphon and Magnificat" by Ceiga; "Ideo Gloria in Excelsis Deo" and "I sing of a Maiden" by David Kraehenbuehl; "Psallite" by Praetorius and "Balulalow" by Peter Warlock.

Ceiga will play as organ offertory "Noel Sur les Flutes" by Claude D'Aquin. Three Christmas Motets by Francis Poulenc will follow and the concluding organ postlude will be "How Brightly Shines" by Garth Edmundson.

At the regular Chapel Service at 10:55 a.m. on Sunday, Dec. 13, 100 members of the combined Meditation Chapel Choirs, under the direction of James W. Beach, will present special Christmas music.

Rev. Williams will deliver the meditation.

The 30th annual Christmas Sing sponsored by the department of German will be held Tuesday, Dec. 15 at 7:30 p.m. in Schwab Auditorium.

George J. Wurfl, professor emeritus of German, who established the program in 1930, will again read the account of the Nativity.

In addition to the singing of well-known German Christmas carols, the program will include musical numbers by a string ensemble and vocalists.

Sonja Brown, contralto, will sing a composition by Franz Tunder, accompanied by an ensemble composed of Dr. Hans Neuberger, head of the depart-

ment of meteorology, and Mrs. Jane Ralls, violinists; Lenore Babione and Dr. Howard Palmer, head of the department of fuel technology, violists; Barbara Kautz, research assistant at the Ordnance Research Laboratory, cellist; and Marie Aquilina, pianist.

William Reeves, baritone, will sing a Brahms number, accompanied by Lenore Babione and Edwin W. Gamble, instructor in music, at the piano.

S. Frederic Will, assistant professor of classical languages, will give a short talk, "A Son is Born."

George E. Ceiga, University organist, will be at the organ.

The traditional Christmas Carol sing, for students and the public, will be held in the courtyard of the Helen Eakin Eisenhower Chapel on Tuesday, Dec. 15 at 7 p.m.

Singers from the Meditation Chapel Choirs will assist in the singing, directed by James W. Beach, instructor in music. The University Christian Association sponsors the sing.

Jon Barry Wilder, graduate student in speech, will once again read Charles Dickens' "A Christmas Carol" for students and faculty as a feature of the Christmas season sponsored by the University Readers, department of speech, and the UCA.

He will give the presentation on Wednesday, Dec. 16 at 8 p.m. in Room 121 Sparks.

Urge NDE act change

President Eric A. Walker, in letters to U.S. Senator Hugh Scott and Representatives Elmer J. Holland, John H. Dent, Carroll D. Kearns, and John A. La Flore, Jr., has urged support in the next session of Congress to eliminate the disclaimer affidavit in the National Defense Education Act of 1958.

Carbon copies of the letter were also sent to Senator Joseph S. Clark and Congressman James Van Zandt.

Dr. Walker said in part, "It (the disclaimer) cannot accomplish the aims that it is intended to accomplish, and it casts doubt on the loyalty of a group, the members of which have, in the past, distinguished themselves for conspicuous service to their country. And it forces a condition of discrimination upon those least able to combat it."

Recess begins early

Christmas recess will begin at the close of classes on Friday night, Dec. 18, with certain exceptions, instead of at 11:50 a.m. Saturday, Dec. 19, in order to permit students to attend the Liberty Bowl football game in Philadelphia.

Action regarding this change in the schedule was recommended by the Senate Calendar and Class Schedule Committee and given administrative approval by President Eric A. Walker last week.

Classes scheduled for Dec. 19 will be held on Jan. 20. Those classes which cannot be held on Jan. 20—such as classes in education which enroll men and women commuting to the campus on Saturday—will be held at the usual time.

Senate Minutes

Minutes of the Meeting of December 3, 1959

The University Senate met at 4:15 p.m. on Thursday, December 3, 1959 in Room 121 Sparks Building with President Eric A. Walker presiding. The secretary read two corrections to the minutes of the November 5, 1959 meeting as printed in the Faculty Bulletin.

1. In reference to the Committee on Educational Policy, the sentence "Recommendations numbered 1, 2, and 3 were discussed and passed," had been omitted.

2. In reference to the Committee of which A. W. Hutchison is chairman, the word "Research" has been changed to "Extension."

The minutes were approved as corrected. One hundred seventy senators signed the roll.

Communications from University Officers

Letters naming substitutes were received from senators unable to be present and naming substitutes. The substitute is designated in parenthesis following the name of the senator: E. P. Strong (Alice Warner), N. A. Norton (W. E. White), R. B. Hewes (R. W. Harding), E. R. Queer (F. A. Joy), R. M. Colwell (Ted Rabun), R. C. Miller (Grant Sheritt), R. W. Stone (E. S. Lindstrom), B. G. Anderson (N. D. Blackburn), and Martha A. Adams (Janis Dengler).

From H. K. Schilling, Dean of the Graduate School:

This letter is being sent to the Senate at the urgent suggestion of the Administrative Committee of the Graduate School and of various other members of the faculty of the University.

At the meeting of the Senate held on November 5, 1959, and in connection with proposed legislation regarding 500 level courses, certain figures were presented which were grossly in error. It is believed that the Senate should be informed as to the facts of the case.

It was asserted (a) that 100 seniors and 18 juniors had been admitted to 500 level courses and (b) that these students were poorly prepared for such admission. Subsequent inquiry disclosed that these statistics supposedly applied to the Fall Semester of 1953. We have studied carefully the Fall 1953 records in the office of the Graduate School and of the University Registrar and have found the following facts.

In the Fall of 1958, there were only 8 seniors and 2 juniors admitted to 500 level courses. Of these 10 students, 6 were admitted with the approval of members of my staff and myself. The remaining 4 were enrolled at the time of registration without our approval, and were approved later when we were confronted with a *fait accompli*. As to the quality of the 6 who had our approval, all but one had an All-University average above 3.00.

In the Fall of 1959, 14 seniors and 2 juniors were admitted to 500 level courses. Of these 16 students, 12 (10 seniors and the 2 juniors) had my permission. The remaining 4 seniors were enrolled in 500 level courses at the time of registration without my permission. I later approved their admission. Of the 12 students whom I personally approved, 10 had All-University grade-point averages above 3.00.

Two students were referred to specifically in the Senate discussion. These two students are the 2 juniors mentioned above as admitted in 1959. One of these has an All-University grade-point average in excess of 3.00. The other has an average of 2.76 as reported. I wish to state that in the opinion of the head of his major department this student was a very good risk. For good reasons I was urged to permit his taking the 500 course and I concurred only after I received a letter of assurance from his department head that his grade-point average in his major field was at least 3.00.

In view of these facts I trust that the Senate will feel that matters have not gotten out of hand in regard to the admission of undergraduates to 500 level courses. I would like to express the opinion that there must be more superior students in the University who could profit from taking 500 courses or seminars than have been applying for that privilege, and that we should make every effort to discover such unusual students. We intend in the Graduate School office to implement the Senate action in such a way that high standards will continue to prevail and that admission to a 500 level course will therefore be a real honor for any undergraduate who is given that privilege. I hope, however, that we can extend that privilege to an increasing number of truly superior undergraduates.

From Robert G. Bernreuter, Secretary to the University Senate:

In his communication to the Senate dated

November 17, 1959, the Dean of the Graduate School has referred to the erroneous statement made at the last Senate meeting that approximately 18 juniors and approximately 100 seniors were admitted to 500 level courses during the last academic year. This statement by the Secretary was made from memory based on a study of the situation last year. A recent review shows that the figures, in one instance, referred to undergraduate students enrolled in 500 courses and in the other instance to freshman and sophomore students enrolled in 400 courses. The facts are that, in the Fall of 1958, there were 13 undergraduate students involving 18 500 level enrollments, and, during the year, 91 freshmen and sophomores were enrolled in 400 courses. Incidentally, in these same 400 courses, 424 graduate students were enrolled.

The recent action of the Senate has clarified the circumstances under which undergraduate students may be admitted to 500 courses. The problem of maintaining standards for graduate students in 400 courses still remains. The Senate may wish to give further consideration to Rule I, le which states, "Fifth semester standing or higher is required for admission to any 400 course."

Reports of Standing Committees

W. G. Mather, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A" and moved its adoption. The motion was seconded and passed. Mr. Mather then discussed the list of courses which was attached to the report as being automatically dropped since they had not been taught for the past five years. He stated that a letter received from A. W. VanderMeer, Associate Dean of the College of Education, requested the following courses in that College be added to the list: Ed 400, Mu Ed 571, Mu Ed 574A, Psy 525, Psy 570, Sec Ed 464. No action on the part of the Senate was necessary on these dropped courses since they were dropped in accordance with action of the Senate at its meeting on May 1, 1958. The complete report of the Committee is on file in the office of the secretary.

J. M. Anderson, Chairman of the SENATE COMMITTEE ON RULES, presented the report which had been distributed at the meeting and moved the adoption of the recommendations in the report. The motion was seconded. Action on this report will be postponed until the next meeting. The report is as follows:

1. The Senate Committee on Student Affairs has asked the Rules Committee to initiate the following constitutional changes concerning its structure. These changes affect the subcommittees of the Student Affairs Committee.

It is recommended that:

1. The Subcommittee on Health and Recreation be abolished.

Reason: This subcommittee has been largely inoperative and is presently unnecessary.

2. The Subcommittee on University-Student Relations be abolished.

Reason: This subcommittee has been largely inoperative and is presently unnecessary. The SGA has taken over part of its functions.

3. The Subcommittee on Social Affairs be abolished.

Reason: The functions of this subcommittee have been largely administrative and such work should be handled by appropriate administrative offices rather than a committee of the Senate.

4. The Subcommittee on Discipline should be altered to have the following membership:

A. Voting Members

1. The Chairman to be the Chairman of the Committee on Student Affairs.
2. The Dean of the College, or his representative, in which the student is enrolled.
3. The President of WSGA and/or SGA, depending on the sex of the student(s) and
4. A faculty or staff specialist on behavior, as designated by the Committee on Student Affairs.

B. Advisory, Nonvoting Members

1. Faculty representative as designated by the Dean of Men or Dean of Women after consultation with the student whose case is under consideration.
2. Dean of Men and/or Dean of Women, depending on the sex of the student(s).
3. Chairman of the court of original jurisdiction, providing the case has been heard previously in a student court.

Reason: To assure more uniformity in the handling of cases, to enable the student government leaders to represent the student point of view, to enable the subcommittee to hear the views of the student court without letting any member of that court vote on an appeal, and to clarify the position of the

Dean of Men and Dean of Women as counselors.

Unfinished Business

D. V. Josephsen, Chairman of the SENATE COMMITTEE ON COMMITTEES, moved that the recommendation which had been tabled at the last meeting of the Senate be adopted. The motion was seconded and passed. Article II, Section 1c of the By-Laws will now read: Athletics, five members.

J. M. Anderson, Chairman of the SENATE COMMITTEE ON RULES, asked that the recommendations as presented at the last meeting be removed from the table. R. H. Waters moved that the recommendation be amended to insert the words "The Director of the Mont Alto Branch" between the words "Department of Resident Education" and "and twelve (12) representatives elected . . ." in Article I, Section 1 - Membership. The motion was seconded and passed. Mr. Anderson then moved adoption of the recommendation as amended. The motion was seconded. In the discussion Joseph Jordan spoke against the increase in the number of administrative members of the Senate and moved that the recommendation be referred back to the Senate Committee on Rules. The motion was seconded and passed (82-64).

New Business

R. G. Stoner, Chairman of the SENATE COMMITTEE ON ADMISSIONS, presented the report which had been distributed at the meeting. He asked for unanimous consent to act on the recommendation at this meeting. There being no objection, Mr. Stoner moved the adoption of the following recommendation for the academic year 1960-61:

Revised Admission Requirements for the College of Agriculture.

The College of Agriculture has recommended for approval the following revised entrance program for students to be admitted as baccalaureate degree candidates, beginning in the Fall of 1960:

English	3
Algebra	1
Plane Geometry	*1
Trigonometry	-
History	-
Science	1
Foreign Language	-
Other Subjects	9

15

* Or advanced algebra

† Reorganized modern sequence in secondary school mathematics will be accepted for the traditional courses.

The Admissions Committee recommends approval for the academic year 1960-61. The motion was seconded and passed.

B. A. Whisler, Chairman of the SENATE COMMITTEE ON CALENDAR AND CLASS SCHEDULE, presented the following recommendation for the information of the Senate:

The Senate Committee on Calendar and Class Schedule recommends to the University Administration that:

1. Saturday morning, December 19, 1959 be declared an official half-day holiday with all scheduled classes being excused on that day, except as noted in paragraph three.
2. Classes excused on December 19, 1959 be made up the morning of Wednesday, January 20, 1960, a day now scheduled as a free day between the end of classes and the beginning of final examinations.
3. The preceding recommendations shall not apply to those classes which cannot be made up satisfactorily on Wednesday, January 20, 1960.

President Walker stated he would approve this report and do what was necessary administratively to put it into effect.

The next regular meeting of the Senate will be on January 7, 1960 in Room 121 Sparks Building. The agenda will be distributed on December 22, 1959.

The meeting adjourned at 4:45 p.m.

Robert G. Bernreuter
Secretary

Rockview entertains

Inmates of the State Correctional Institution at Rockview will present a program of Christmas music in Schwab Auditorium on Sunday, Dec. 13 at 3:30 p.m.

A band and chorus of 40 inmates, under the direction of James H. Burden, instructor in music who is part-time musical director at Rockview, will give a program similar to that of last year.



Dr. John J. Gibbons, professor of physics, is interviewed for the new series of radio programs titled "Footnotes" which will be heard over a network of 19 stations beginning in January.

Faculty on the air

The voices of more than a hundred faculty members will be heard over a network of 19 radio stations in Pennsylvania via a series of one-minute taped commentaries on important questions of the day, beginning in January.

Called "Footnotes," the short programs are designed to be used by the stations two or three times a day at such intervals that they will reach a diverse audience.

Arranged by Gilbert S. Aberg, radio-television producer in the department of public information, the commentaries are on such topics as:

Are Americans Getting Soft?
Can We Trust the Russians?
Can Prosperity Go On Forever?

A series of 12 questions has been prepared with an average of 12 commentators for each question. The tape of any specific question will be used by a station for a period of about 10 days, Aberg explains, so that over that period Penn State's "voice" will be heard perhaps 30 to 40 times. A new question would follow the next ten days.

It is not expected that the stations will follow the same timetable each day for the commentaries, Aberg says, but will use them as they see fit to reach a wide audience and to conform to the regular broadcast schedule.

Scholarship honors Cooper

The late Albert E. Cooper, professor of agronomy extension until his death in 1958 has been honored by the Pocono Turf Grass Association in the establishment of a scholarship.

Providing \$100 a year for a third-year student in the Turfgrass Management Winter Course program of the College of Agriculture, the scholarship will be granted on the basis of need and scholastic achievement.

The stations which to date have signified their intention to carry the commentaries fairly well cover the State and other stations are expected to be added to the "network". The 19 stations are located in Altoona, Ambridge, Carbondale, Clearfield, Doylestown, Franklin, Hanover, Hazleton, Indiana, Kane, Lansford, Lewisburg, Lewistown, McKeesport, Pottsville, State College, Uniontown, Wilkes Barre, and Williamsport.

Aberg explains that the programs constitute a new technique for commercial AM radio, aimed at busy people who listen to radio only in brief snatches of time.

Basic purpose of the programs is to develop a deeper public interest in vital questions and to stimulate greater discussion of them. Faculty members who have contributed their thoughts were given the leeway of choosing any phase of the question they wished to comment on. As a consequence, Aberg says, there is considerable variety in the statements.

Recordings have been made in the studies of WDFM, campus radio station, through the cooperation of Dr. Harold E. Nelson, advisor to the station and student manager Jim Brown. Additional tapes are planned.

To patent Patton process

A process for the stabilizing the flavor of milk fat products, especially dried whole milk, developed by Dr. Stuart Patton, associate professor of dairy science, has been accepted for patenting by the Research Corporation of New York. The Corporation prosecutes University patent applications.

Dry whole milk develops storage flavors which make it unacceptable as a substitute for fresh whole milk.

Personnel matters

Joyce S. Mengle, associate extension home economist in Schuylkill County, and Joanne D. Noonan, extension home economist in Crawford County, have resigned, effective Dec. 31.

✓ **Ruth E. Gates**, instructor in clothing and textiles, has been granted an extension of her leave until Dec. 31 to study for her doctor of philosophy degree.

✓ **Dr. Aaron Druckman**, associate professor of philosophy, has been granted an extension of his leave until June 30 to continue study and travel in Europe.

✓ **Peter H. Lord**, senior engineer, The Martin Co., has been named visiting lecturer in electrical engineering for the academic year. He will divide his time between the Computer Laboratory and teaching.

✓ **Dr. Jules Labarthe**, professor of textile technology at Carnegie Institute of Technology, has been named visiting professor in the College of Home Economics, to teach graduate courses in textiles.

✓ **Dr. Lyman E. Jackson**, dean of the College of Agriculture, has been granted a leave of absence from Jan. 1 to June 30, to work on some text books in the field of animal husbandry and agronomy and to visit other agricultural colleges.

✓ **Dr. Wallace E. White**, professor of wood technology, has been named assistant director of the School of Forestry. He will continue to teach and will assist with student counseling and other resident education matters.

Education reorganization

The curriculum in education has been organized into three curriculums—elementary and kindergarten education, secondary education, and rehabilitation education—effective immediately.

Acting upon the recommendation of the University Senate, the reorganization was approved by the Executive Committee of the Board of Trustees.

Jazz group concert

Art Hodes and his group will present a program of Dixieland Jazz Music on the Artists Series on Sunday, Dec. 13 at 8 p.m. in Schawb Auditorium. Tickets are now on sale at the HUB desk and will remain on sale until Sunday. They are priced at \$1.25.

Tobias succumbs

Arthur L. Tobias, retired associate professor of engineering drawing, died on Sunday, Dec. 6 at his home. He came to the University as instructor in 1926 and was a graduate of Penn State in 1912. He was 73.

Calendar

Friday, Dec. 11

Fluid Mechanics Seminar, 4:15 p.m., Room 102 Sackett. Louis M. Glymph, Jr., chief, Watershed Technology Research Branch, Soil and Water Conservation Research Division, U.S. Dept. of Agriculture, on "Watershed Research in the Agricultural Research Service."

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Francis Birch, Harvard University, on "Elastic Properties of Rocks."

College of Agriculture Faculty meeting, 4:15 p.m. Room 109 Armsby.

Saturday, Dec. 12

Chapel Choir Christmas concert, 10:55 p.m., Schwab Auditorium.

Center Stage production of Henrik Ibsen's play, "John Gabriel Borkman," 8 p.m.

Meetings of the Society for Advancement of Management, Hetzel Union and Boucke Buildings.

Sunday, Dec. 13

Chapel Service, 10:55 a.m., Schwab Auditorium. Music by Meditation Chapel Choirs.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Charles Trautman, UCA program association, Westminster Foundation.

Artists Series program by Art Hodes and his jazz group, 8 p.m., Rec Hall.

Christmas program by inmates of Rockview, 3:30 p.m., Schwab Auditorium. Traditional music by band and chorus.

Monday, Dec. 14

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Students William Bonham and Margaret McPherson, University Readers, will present Christmas stories.

English Colloquium, 7:30 p.m., Chapel Lounge. Dr. Richard Gidez, instructor in English, on "The Sentimental Inheritance: the American Domestic Novel."

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A". W. J. Schuman, Aberdeen Proving Ground, on "Cylindrical Shells Exposed to Blast Loadings."

State College Color Slide Club, 7:30 p.m., Mineral Industries Auditorium. Robert S. Beebe, assistant in photography, College of Agriculture, on "Simplicity, the Key to Successful Pictures."

Tuesday, Dec. 15

Thirtieth annual Christmas Sing, sponsored by department of German, 7:30 p.m., Schwab Auditorium.

Christmas Carol sing, sponsored by the University Christian Association, 7 p.m., Chapel courtyard.

Meeting of the Institute of Radio Engineers, 7:15 p.m., Mineral Industries Auditorium. Dr. John L. McLucas, HRB-Singer, Inc., on "The U.S.R. Forges Ahead." Meeting of Phi Lambda Upsilon, honorary chemical society, 7:30 p.m., Room 111 Boucke. Dr. Edmund H. Umberger, assistant professor of mathematics, on "Mathematics and Music."

Basketball, versus Syracuse, 8 p.m., Rec Hall.

Wednesday, Dec. 16

Jon Barry Wilder reads "A Christmas

Carol." 8 p.m., Room 121 Sparks, sponsored by University Readers, department of speech, and University Christian Association.

University Lecture Series, 8 p.m., Schwab Auditorium. Dr. Carleton Coon, on "The Origin and Development of Man's Culture."

Forestry Convocation, 11 a.m., Room 121 Sparks. Dr. David E. Davis, professor of zoology, on "The Management of Mammal Populations."

Thursday, Dec. 17

Meeting of the Graduate School faculty, 4:10 p.m., Room 121 Sparks.

Mathematics Colloquium, 3:15 p.m., Room 12, Sparks. Dr. Joseph Kist, on "Continuity of Positive Linear Transformations."

Wrestling, versus Michigan, 8 p.m., Rec Hall.

Friday, Dec. 18

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Rustum Roy, professor of geochemistry, on "Report on Observations on Laboratories in Soviet Union and Elsewhere."

Christmas recess begins, 9:50 p.m.

Coon lecture Dec. 16

Dr. Carleton S. Coon, curator of ethnology and professor of anthropology at the University Museum, Philadelphia, will present the third Darwinian Series lecture of the University Lecture Series on Wednesday, Dec. 16, at 8 p.m. in Schwab Auditorium.

He will speak on "The Origin and Development of Man's Culture."

A Harvard graduate, Dr. Coon has done extensive anthropological field work. He served at Harvard from 1934 to 1948, with the exception of a three-year period of service in the U.S. Army. He has held his present position since 1948.

Dr. Coon is the holder of the Legion of Merit and the Viking Medal in Physical Anthropology. He is the author of many publications, including "The Story of Man" and "Flesh of the Wild Ox."

Graduate school meeting

There will be a meeting of the faculty of the Graduate School on Thursday, Dec. 17 at 4:10 p.m. in Room 121 Sparks.

Candlelight at HUB

The Christmas Candlelight dinner at the Hetzel Union Building Terrace Room on Thursday, Dec. 17 from 5 to 6:45 p.m. will feature french fried chicken, baked ham, beef vegetable pie, and baked meat loaf with potato border as entrees. Desserts will include Christmas pudding, fruit cake, apple, mince, and pumpkin pie.

Items of Interest

• Lectures and Talks

P. S. Skell, chemistry, a talk, "The Stereochemistry of Olefin-Radical Addition Reactions," before the Pittsburgh section of the American Chemical Society on Dec. 3.

H. J. Goltz, industrial relations, as a panelist on the means of achieving excellence in labor education at the National Institute of Labor Education Conference at Madison, Wisconsin.

Stanley Weintraub, English, as a discussion leader on "George Bernard Shaw: Aspects and Problems of Research" at the meetings of the MLAA in Chicago, Dec. 27-29.

Viktor Lowenfeld, art education, the keynote address at the convention of the Middle Atlantic Section of the American Society for Engineering Education, on "Creativity."

N. R. Diller, psychology, Ogontz, a talk on "The Consideration of Attitudes Toward Executive Behavior in Research and Scientific Activities" at a dinner meeting of executives and scientists of the Pure Oil Co. at Chicago, Ill.

I. E. Parkin, dairy extension, talks on "Quality Milk Programs for Producers" and "Problems and their Solutions in Bulk Milk Tank Operation," before the 17th annual Dairy Conference at the University of Maryland.

faculty BULLETIN

Vol. 47, No. 13

Dec. 11, 1959

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Mairs, Mrs. T. I.
Cent Library

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Dial 110 for emergency

Faculty, staff members and students have been urged to inform themselves of the proper procedures to use in obtaining aid in case of fire or accident on campus.

E. F. Olver, director of the Security Department, points out that delay in obtaining assistance in several cases recently was caused by lack of familiarity with the steps to take in reporting such emergencies to persons best able to handle them.

"First and foremost," Olver says, "everyone should memorize the telephone number—110—to be called from campus phones to obtain aid.

"It is just as important to remember, however, that this number should be used only for urgent circumstances, since to tie up the line for minor personal emergencies may delay critically-needed aid."

Operators on duty

Olver cites fire, accidents involving need of doctors or first aid, and other emergencies of similar importance as proper occasions for dialing 110.

At the switchboard, he explains, operators are on duty 24 hours a day to take calls coming in on the 110 line. They have been specially trained to take these calls and know instantly which persons to call for help. Within seconds of the receipt of the emergency call they will contact the proper person.

Under no circumstances, Olver adds, should the 110 line be used for such occurrences as locked automobiles or offices or for similar problems. Campus Patrol may be reached by dialing UN 5-5458.

Chemicals vital to Agriculture

THE recent "cranberry episode" focused attention on one of the newer aspects of food production—the agricultural chemical field—and the public got another lesson in the complexity of modern farming.

"Most people are unaware that today practically no food could be grown commercially and economically without the use of pesticides," says Dr. Donald E. H. Frear, professor of agricultural and biological chemistry. "Further, there is a great deal of confusion in the public mind about the potential hazards connected with the use of the chemicals which fall into this very useful class."

The pesticide chemical industry has made tremendous strides in the last 20 years, so that at present farmers have available a whole arsenal of chemical weapons for use in their continual war on pests—insects, plant diseases, weeds, and rodents. The first chemical pesticide to be generally used in agriculture was Paris green, developed about one hundred years ago. This was followed by Bordeaux mixture, lime sulfur, lead and calcium arsenates. With these few limited chemicals, the farmer was handicapped, and the low crop yields of the period showed it.

DDT gave impetus

"I think there is little doubt," says Dr. Frear, "that the successful use of DDT as a means of controlling flies and some other insects, gave a great deal of impetus to studies of more chemicals for agricultural use. So in the early 1940s the development of pesticides, growth regulators, hormones, antibiotics, pharmaceuticals and other chemicals began in earnest. From the standpoint of war production, it was fortunate for us that these chemicals were developed then."

Dr. Frear has been interested in the agricultural chemical field for a quarter of a century and is recognized internationally for his research and textbooks on insecticides and other pesticides. His handbook on pesticide chemicals is widely used, and is now in its eleventh edition.

"We are now in a transition period," he says, "as far as the use of chemicals is concerned. We have come a long way in developing chemicals to kill insects, or weeds, or to keep apples from dropping too early, or to do any one of literally hundreds of things to bring more and better farm products to the American public, but we have probably only scratched the surface.

"What many people don't realize, however, is that without these chem-



Dr. Donald E. H. Frear, ag biochemist, says our agriculture would suffer great loss if it were not for modern chemicals.

icals, or others we will ultimately develop, our farmers might not be able to produce enough to keep starvation away from our doors, it is that serious a matter.

"As an example, it is estimated that if we did not have the chemicals we do to control apple maggot and codling moth, our yearly apple crop would be only five per cent of what it is. Obviously, few families could afford apples if this were so."

There are three fundamental reasons, Dr. Frear says, that we need chemicals more so than ever: importation, specialization, and accustomization.

"Although the farmer of a century ago did have insects and diseases to contend with (and he wasn't able to battle them very well) we have more now than he did then, because many have been imported. Tied in with this importation is transportation, which now carries insects or diseases to new areas much more rapidly than years ago. It took 30 to 40 years for the Colorado potato beetle to make the journey east a century ago. Today a new pest could be established in a matter of a few years.

Agriculture specializes

"On the second point, the specialization of agriculture has undoubtedly complicated our disease and insect problems. If we must have farms which go in for intense production, with high cost-per-acre crops, then it is obviously most important to eliminate problems

(Continued on page four)

Items of Interest

• Articles and Papers

At the technical program of the 41st National Metal Congress and Exposition, papers by members of the department of metallurgy: G. W. Bush and R. W. Lindsay, on the strengths and ductilities of steels containing specific amounts of copper; and by J. W. Proske and A. J. Shaler on results of studies of the penetration of molten silver into porous aluminum oxide bodies.

At the joint annual meetings of the Geological Society of America, the Paleontological Society, the Mineralogical Society, the Society of Economic Geologists, and the Geochemical Society, papers by the following members of the faculty of the College of Mineral Industries: F. N. Swartz, Shigeo Aramaki, Rustum Roy, Frank Dachille, Seymour Merrin, D. B. Hawkins, Hildegard Hoss, B. F. Howell, Jr., P. H. Licastro, L. F. Herzog, II, P. E. Rosenberg, Della M. Roy, C. Ruiz-Menacho, Vladimir Stubican, L. S. Walter, J. G. Griffiths, J. V. Smith, G. V. Wood, P. D. Krynine, R. W. Hoffman, G. W. Brindley, and Arnulf Muan.

R. L. Slobod, petroleum and natural gas, a paper titled "Research on Methods for Improving Oil Recovery from Pennsylvania Oil Fields," at the Interstate Oil Compact Commission in Philadelphia.

E. P. Hexner, economics, articles titled "Administration of the Exchange Value of British Currency" in the *Georgetown Law Journal* and "Convertibilite, Multilateralisme et Politiques de Stabilisation" in the publication of the French Institute for Applied Economics in Paris.

R. O. Rowlands, engineering research, a paper titled "Low Q Filters" at the 4th Midwest Symposium on Circuit Theory at Marquette University.

J. A. DeNovo, history, two articles, "A Railroad for Turkey," in *The Business History Review*, and "American Relations with the Middle East: Some Unfinished Business" as a chapter in the book, "Issues and Conflicts" published by the University of Kansas Press.

At the meetings of the Modern Language Association of America, in Chicago Dec. 27-29, papers by H. H. Chapman, Jr., on "Moliere in England's Green and Pleasant Land" and Albert Valdman on comparative linguistics.

G. R. Smith, English, an article "Shakespeare and Freudian Interpretations" in *American Imago* and a paper, "Authoritarian Patterns in Shakespeare's Coriolanus" at the Modern Language Association of America meetings.

Stanley Weintraub, English, an article, "The Embryo Playwright in Ber-

nard Shaw's Early Novels" in the *Texas Studies in Literature and Language*.

Joseph Marin, engineering mechanics, with M. G. Sharma, a paper on "Material Design for Resonant Members" at meetings of the American Society for Mechanical Engineers in Atlantic City.

Jerry Stannard, philosophy, an article "Socratic Eros and Platonic Dialectic" in the 1959 issue of *Phronesis*.

• Elected or Appointed

H. T. Sturcken, Romance languages, to be appointed editor of the *Comparative Romance Linguistic Newsletter*; Simon Belasco to the advisory and nominating committee of the section in experimental phonetics of the Modern Language Association of America; and D. W. Bleznick to the test development committee of the AATSP.

G. L. Crossley, electrical engineering, elected for fourth term of two years as director of the Atlantic Division of the American Radio Relay League.

R. W. Frank, Jr., English, appointed secretary of the Chaucer discussion group for the meetings of the MLAA.

H. H. Kauffman, poultry science extension, appointed as judge of dressed turkeys for the National Turkey Federation Exposition at St. Paul Jan. 5-7.

N. C. Pendered, industrial arts, named chairman of the Administration Committee of the Industrial Arts Association of Pennsylvania.

E. W. Miller, geography, appointed member of the committee on national resources on the commission of geography of the Pan American Institute of Geography and History.

Coleman Herpel, director Ogontz Campus, elected to a two-year term on the Executive Committee, Junior College Council, Middle Atlantic States.

James Gemmell, secondary education, appointed member of the Selection Board, Enoch Pratt Free Library, Baltimore. The Board selects annually the list of "outstanding educational books," to appear in the *National Education Association Journal*.

Phyllis R. Griess, geography, appointed to a three-year term as national editor of "The Professional Geographer."

• Lectures and Talks

K. W. Hylbert, counseling in education, a report on counseling practicums at a San Francisco meeting of the directors of rehabilitation counselor education programs sponsored by the U.S. Office of Vocational Rehabilitation.

A. M. Wellington, counseling in education, addressed teachers institutes in Somerset, Mifflin, and Juniata Counties, and the Danville area.

G. W. Brindley, ceramic technology, the keynote address at the Pittsburgh Diffraction Conference, on the subject, "X-ray Diffraction Applied to the Study of Ceramic Reactions."

University joins IDA

An invitation to the University to join the Institute for Defense Analyses has been accepted by the Board of Trustees and President Walker has been designated official University representative and Dr. E. F. Osborn, vice-president for research, as alternate representative.

The IDA was formed as an association of universities "to promote, in the field of defense studies, a more effective relationship between the national security and scientific learning." With the addition of Penn State, the association now has seven members, including California Institute of Technology, Case Institute of Technology, Massachusetts Institute of Technology, Stanford and Tulane Universities, all charter members, and the University of Michigan, a recent addition.

Dr. Walker considers the invitation a recognition of the outstanding scientific work done here, particularly in the fields related directly to the defense of the nation.

IDA was organized in 1956 and its first task, performed at the request of the Secretary of Defense, pertained to weapons evaluation. Subsequently, it has made studies in communications and defense against ballistic missiles.

Dr. Garrison Norton, former assistant secretary of the Navy, is president and Dr. James R. Killian is chairman of the Board.

University still 11th

Penn State remains in 11th position in full-time enrollment among the nation's universities, statistics for the current academic year indicate. The full-time enrollment here is given as 16,717. The University of California is largest, with 42,407.

In grand total enrollment, which includes part-time students, Penn State dropped from 15th to 17th, with a total of 20,377. The College of the City of New York (CCNY) is largest, with 74,682.

The statistics are compiled by Dr. Raymond Walters, president emeritus, of Cincinnati University.

Registration asked

Foreign visitors to the campus are asked to register with the chairman of the University Committee on International Understanding UN5-2731 or the office of International Student Affairs, UN 5-6752. Registration of name, title, local address, purpose and length of stay will be helpful in facilitating delivery of mail, telephone messages, and inquiries.

Committees combined

President Walker has announced that the functions of the Artists Series and University Lecture Series committees will be handled by one committee in the future.

For the balance of the current academic year, the Artists Series committee will assume responsibility for completing the lecture program already arranged. This committee, composed of students, faculty, and administrative members, will be augmented in the future to aid in the arranging of the expanded program.

PBK names officers

Lambda of Pennsylvania chapter of Phi Beta Kappa has elected officers for the coming year. Elected were:

Dr. Thomas Wartik, associate professor of chemistry, president.

Catherine A. Carter, chief catalogue reviser, University Library, secretary.

Dr. Teresa Cohen, professor of mathematics, treasurer.

Dr. Carl E. Marquardt, professor emeritus of Romance philosophy, historian.

Dr. Henry W. Johnstone, associate professor of philosophy; Dr. Hugh H. Chapman, Jr., associate professor of Romance languages, and David C. Whitmarsh, Jr., associate professor of engineering research, all as members of the executive committee.

Chess championships here

The National Intercollegiate Chess Championships will be held at University Park, Dec. 28-30. Only individual titles are at stake in accordance with the usual schedule which has team championships in alternate years.

The event will be held in the HUB card room.

Dr. Orrin Frink, head of the department of mathematics and coach of the chess team, recently won the Chess Club's qualifying tournament with a 7-0 record. The Club invites faculty members to play. It meets at 7 p.m. each Wednesday in the HUB cardroom.

Art exhibit at HUB

An exhibition of the works of four contemporary artists and a sculptor is being currently held at the HUB Art Gallery in recognition of Betty Parsons, owner and director of the New York gallery from which the works have been obtained on loan.

Represented in the exhibit are Hedda Stern, Ad Reinhardt, Enrico Donati, Richard Pousette-Dart, and sculptor Seymour Lipton.

The exhibit will continue until Jan. 12.

SS tax increase Jan. 1

Beginning Jan. 1, 1960, the Social Security tax will be increased from the present 2½ per cent rate to 3 per cent, in accordance with the rate schedule announced several years ago.

The new rate will apply until 1963, at which time it will be increased to 3½ per cent. In 1966 the tax will go up to 4 per cent and in 1969 to 4½ per cent.

Offsetting to some degree this increase in Social Security taxes for University employees who are also members of the State Employees' Retirement System will be a reduction in the amount paid by the employee into SERS. For the period 1960-1962, each employee's contribution to SERS will be reduced by two-tenths of one per cent. The net increase in employee contributions to the combined SERS-Social Security plan will be only three-tenths of one per cent.

For employees who are earning over \$4,800 and are SERS members, the increase in contributions will total only \$14.40 per year. For employees not members of SERS, but who earn \$4,800 or more, the increase in contributions will be \$24.00 per year.

Social Security taxes were increased at the beginning of 1959, at which time there was also an increase in the base on which taxes were paid, from \$4,200 to \$4,800. At the same time there was an increase in benefits.

The new tax schedule also provides for an increase in the employer's contribution to the Social Security system.

Nigeria trip cancelled

President Eric A. Walker has resigned from the Commission on Post-School and Higher Education in Nigeria and will therefore not go with the Commission when it leaves in December.

Late action of the Legislature on our appropriation, he explains, set back the consideration of major problems at the University to a point that prevents him from joining the Commission.

Inn has food service

The Nittany Lion Inn will continue food service through the Christmas recess either in the dining room or in the coffee shop. Christmas dinner will be served from 12:30 p.m. to 2:30 and from 6 to 8 p.m.

ACS meeting Jan. 8

Dr. David Kritchevsky, of the Wistar Institute, University of Pennsylvania, will speak on "Cholesterol" at the next meeting of the Central Pennsylvania Section of the American Chemical Society. The meeting will be held on Friday, Jan. 8 at 8:30 p.m. in Room 119 Osmond.

Calendar

Friday, Dec. 18

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Rustum Roy, professor of geochemistry, on "Report on Observations on Laboratories in Soviet Union and Elsewhere."

Christmas recess begins, 9:50 p.m.

Monday, Dec. 28

National Intercollegiate Chess tournament, HUB cardroom. Ends Dec. 30.

Monday, Jan. 4

Christmas recess ends, 8 a.m.
Faculty Luncheon Club meeting, 12 noon, dining room "A", Hetzel Union Building. Dr. James E. Wright, associate professor of genetics, on "A Corn Geneticist at a Trout Hatchery."

Tuesday, Jan. 5

College of the Liberal Arts faculty meeting, 4:15 p.m., HUB assembly room.

Friday, Jan. 8

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Robert Scholten, associate professor of petroleum geology, on "Origin of the Bosphorus."

American Chemical Society meeting, 8:30 p.m., Room 119, Osmond. Dr. David Kritchevsky, Wistar Institute, University of Pennsylvania, on "Cholesterol."

Jahns heads earth sciences

Dr. Richard H. Jahns, professor of geology at California Institute of Technology, has been named chairman of the Division of Earth Sciences and professor of geology, effective July 1.

He succeeds Dr. O. Frank Tuttle, who is now dean of the College of Mineral Industries. Until Dr. Jahns' arrival, Dr. Benjamin Howell, head of the department of geophysics and geochemistry, will serve as acting chairman of the Division.

Dr. Jahns is a graduate of Cal Tech, and obtained his masters degree in geology at Northwestern University and doctorate from Cal Tech. He joined the faculty at his alma mater in 1946, after service with the U.S. Geological Survey. He was visiting professor here last year.

Pattee and HUB hours

Ralph W. McComb, University Librarian, has announced the following hours for Pattee Library during the Christmas recess:

Dec. 19—7:50 a.m. to 12 noon

20—closed

21-22—9 a.m. to 5 p.m.

23-27—closed

28-31—9 a.m. to 5 p.m.

Jan. 1—closed

2—9 a.m. to 12 noon

3—closed

The Terrace Room at the Hetzel Union building will close after lunch on Saturday, Dec. 19 and reopen for dinner on Sunday, Jan. 3. The Lions Den will close at noon, Saturday and reopen on Jan. 3 at 3:30 p.m.

Next issue Jan. 8

The next issue of the *Faculty Bulletin* will appear on Jan. 8. May we take this opportunity to extend greetings of the Christmas Season and to wish everyone a most rewarding and joyous New Year.

CHEMICALS —

(Continued from page one)

which destroy even a small part of the crop. Hence, more chemicals.

"The third point is one which the modern public may not appreciate very much, but it should. Forty years ago we cut the worm out of the apple and ate the good part remaining. Today it is unthinkable to buy wormy apples. We have become so accustomed to perfection in farm products that we won't accept anything less, even though only a generation ago we did so without giving another thought to it. Modern chemicals have helped the farmer to produce the wormless apple and the perfect vegetable."

But the development of agricultural chemicals has not been without opposition. There are very sincere and well-meaning individuals and groups—such as organic gardeners and conservation advocates—who contend that chemicals upset Nature's balance and that we will have to pay the price eventually. During the "cranberry case" these groups were quite vociferous because the incident *seemed* to confirm their fears that the American public would be poisoned by excessive use of chemicals on farm products.

"Actually, the cranberry episode," says Dr. Frear, "provided an excellent example of how the consumer is protected in the food he buys. Few people seem to realize that there are very strict laws which prohibit the sale of chemicals which have not been given a thorough test before they can be used in food production and processing.

"Nor does the public understand that the industry polices itself very diligently to keep out chemicals which might be harmful to humans, and other mammals under certain circumstances.

"It is said that it costs from \$100,000 to \$250,000 to produce one of these synthetic chemicals used in agriculture, counting all the research costs. The industry can't afford to lose the confidence of the public with that kind of investment."

Before any new chemical is allowed to reach the dealers' shelves, it must undergo rigorous laboratory and field tests which require from two to five years, Dr. Frear points out. The toxicity tests are made with laboratory animals, and measure both the acute and chronic potential toxicity of the compound. Based on these tests, tolerances are then established, setting the maximum amounts of the chemicals which may be permitted on the harvested crop. Wide factors of safety are utilized to protect the public health.

Chemicals tested

Each chemical is tested with every crop on which it might be used, and the public usage of the product is taken into consideration in establishing tolerance levels. Obviously, potatoes, which might be eaten every day, should not be permitted as much residue as would, for example, watermelon which would be eaten much less frequently. No residues of any kind are ever permitted in milk, because of its use as the sole food of infants. The Food and Drug Administration employs field inspectors who have the power to prevent any agricultural commodity from reaching the market if it contains residues beyond the established safe tolerance limits. A large group of chemists works full-time checking and analyzing samples of all types of commodities.

"In the case of the cranberry crack-down," Dr. Frear points out, "the chemical aminotriazone had been tested and put into use. Containers for the chem-

ical had adequate instructions on its use, but the growers whose cranberries were 'contaminated' had used this weed killer at the wrong time of the year.

"The very fact that a determined effort was made by the Public Health Service to prevent these cranberries from reaching the market should be proof to the public that the machinery is there, and is used, to protect it."

Added protection, Dr. Frear observes, is given through such informational agencies as the Extension Service, which is continually advising farmers on how to use the chemicals available.

"Many insect chemicals now quite useful will probably be discarded in the future as worthless," Dr. Frear says. "DDT was effective on houseflies for about five years after its initial prominence, but eventually strains of flies developed which were highly resistant. Then lindane took its place, but the effectiveness of this chemical lasted only two years. We are now in our fifth or sixth housefly control chemical.

"Presumably the process of natural selection, which is inexorable, is at work and we are faced with a continuing battle to keep ahead. The alternative is not, as the organic gardeners imply, the destruction of all chemicals so that Nature will take over, but rather the continual search for new ways to fight the battle.

"We can't return to the days when a farmer fed himself and one other person. Today he feeds more than 20 other people; in the future he'll have to do even more and he needs all the tools we can give him.

"To take away aminotriazone from the cranberry growers simply because a few of them misused it is not the answer; rather take all possible measures to prevent such misuse, and also keep a jump ahead with such laws that will protect the public in any eventuality."

faculty BULLETIN

Vol. 47, No. 14

Dec. 18, 1959

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Mairs, Mrs. T. I.
Cent Library

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

ANS chapter formed

A chapter of the American Nuclear Society has been formed at Penn State. Local members include Edward S. Kenney, health physicist; Forrest J. Remick, director of the Research Reactor; and Alan M. Jacobs, research associate.

Nunzio J. Palladino, head of the department of nuclear engineering, is adviser to the student chapter.

Grades due

Grades for all students to receive degrees at the January Commencement Exercises must be reported to the Records' Office, Room 4, Willard Building, not later than 9 a.m., Wednesday, Jan. 27, a reminder from the dean of admissions and registrar points out.

Grades for all other students must be reported within 48 hours after the final examination or, in the case of research grades, not later than 5:30 p.m., Friday, Jan. 29.

The announcement also stated that it will not be necessary for each instructor to telephone failing grades to the office of the student's dean as in previous semesters.

Dr. Mack honored

Dr. Pauline Beery Mack, professor emerita of chemistry who retired in 1952, has been honored in Texas as "Piper Professor of 1959."

One of ten to be so honored, Dr. Mack was cited for her work as dean and director of research of the College of Household Arts and Sciences, Texas Woman's University. The award is made to distinguished professors in institutions of higher learning in Texas.

Handicapped children get help

PENNSYLVANIA and its individual communities are among the most forward looking governmental organizations in the country when it comes to the concern shown for handicapped children, says Dr. Eugene T. McDonald, head of the Speech and Hearing Clinic.

"Nevertheless," he adds, "we are faced with an immense job in helping persons who are mentally retarded, speech defective, physically handicapped, deaf or hard of hearing, or blind.

"Governor Lawrence only recently pointed out that although 110,000 blind, deaf, crippled, and mentally retarded children are being aided this academic year in special public school classes, taught by specially trained teachers, there are still more than 60,000 such children who will not be able to benefit from this kind of care.

"In addition, I can add, there are at least another 100,000 children with speech handicaps."

A forward step is being taken, Dr. McDonald says, with the construction of special education facilities at Penn State as well as at 11 State Teachers Colleges, especially to help in the training of much-needed teachers and for research.

The problem of helping the handicapped child take his place in society is not solved by limiting his training to vocational skills in facilities set apart from those of normal children, Dr. McDonald points out. In so far as possible, the handicapped child should receive as broad and deep an education as he is capable of and in normal social activities.

Stay in classroom

"Every handicapped child who can adjust adequately should stay in the regular classroom, but there are always some with us who must have special facilities," he says.

Statistics compiled by the Pennsylvania Department of Public Instruction indicate that some 46,400 children of elementary and secondary school age who are mentally retarded are educable and 3,300 other mentally retarded children are trainable. Of this total, Pennsylvania is now helping about 31,100 in special classes which the youngster attends all day. The others are still to be reached.

The Department also notes that 65,000 children with speech defects receive special instruction in schools, and that of an estimated 882 children who are deaf or severely hard of hearing, 367 are now being served in special

classes, attended the entire day in the regular school system. Another 2,500 children who are less severely hard of hearing should attend regular school sessions and receive added instruction in special classes.

Pennsylvania has for a number of years had a detection program in the public schools, Dr. McDonald points out, to reach the school-age children who are hard of hearing but we need a systematic way of identifying pre-school children. At Penn State we operate one of the audiology centers where children suspected of having hearing losses are referred by school nurses and physicians for audiological evaluations and recommendations for rehabilitation and education.

Early identification

It is vital to the welfare of the children, Dr. McDonald explains, that not only a special few but all teachers learn to at least identify the handicapping problems of children, particularly those in the early grades, so that the child can be given treatment, where advisable, and training.

In the past few years the State Department of Public Instruction has encouraged development of special education programs in Pennsylvania colleges and universities and several new graduate and undergraduate programs have been established. In spite of this increased interest, many times the number of students being graduated in this area are needed. For example, it is estimated that there is a need for three or four times the number of speech correctionists in the United States as are now available.

Penn State has had programs in speech for four decades and has earned an enviable reputation for its training and research work. Attention in the other areas of special education began with the appointment in 1945 of Miss Margaret A. Neuber, as professor of education, to supervise the undergraduate, graduate and continuing education types of courses, workshops, and practicums. Her influence is recognized by teachers throughout the State.

The new building, which will be built on Park Ave. on the edge of Hort Woods, will aid in these various programs in a number of ways, making it possible to do clinical work for handicapped children of the area, train graduate and undergraduate students in methods, be available for summer workshops, and facilitate research work. Dr. Donald Cameron, Centre County super-

(Continued on page two)

Items of Interest

• Elected or Appointed

D. R. McClay, agricultural education, is the new president-elect of the American Association of Teacher Educators in Agriculture.

W. H. Gotolski, civil engineering, appointed chairman of the Committee on Employment Opportunities, Educational Division, American Road Builders' Association.

M. W. Isenberg, architectural engineering, reappointed to a second term on the Committee on Cooperation with Industry of the Association of Collegiate Schools of Architecture.

Herman Kranzer, elementary education, elected secretary-treasurer of the National Association of Biology Teachers for 1960.

L. E. Adams, agricultural extension, elected chairman of the Extension Section, Entomological Society of America.

Marjory L. Joseph, clothing and textiles, elected chairman of the Central District of the Pennsylvania Home Economic Association for a two-year period.

H. D. Gerhold, forestry, elected chairman of the technical committee of NE 27, a regional research project titled "Forest Tree Improvement and Site Capability Determinations."

A. L. Harnett, physical education and athletics, appointed associate editor of the Journal of School Health, monthly publication of the American School Health Association.

• Articles and Papers

Joseph Der Hovanesian, agricultural engineering, a paper titled "Development of a Recording Volumetric Transducer for Studying Effects of Soil Parameters on Compaction."

P. W. Hill, engineering mechanics, a paper on "Performance of a Laboratory Hay Pelleting Press with Semi-Positive Die" at the annual meeting of the American Society of Agricultural Engineers.

Frances M. Andrews, music education, an article, "Resources for Music Instruction," in the current issue of National Elementary Principal.

H. P. Zelko, speech, an article "How Well Do You Communicate" in a special issue of "Education"; also in the November issue of the Public Relations Journal an article titled "Internal Communication and Customer Relations."

At the 126th annual meeting of the American Association for the Advancement of Science, papers by the following: C. R. Carpenter, "Field Studies of a Primate Population: Composition of Groups of Howler Monkeys (*Alouatta palliata*)"; D. E. Davis, zoology, "The Phylogeny of Gangs"; R. E. Larson, horticulture, "Perpetuation and Protec-

tion of Germ Plasm as Vegetative Stock"; W. B. White, chemistry, "Terminations of Passages in Appalachian Caves as Evidence for a Shallow Phreatic Origin." Also M. W. Schein, poultry husbandry, chairman of symposium on "Early Experiences and Instincts."

M. J. Weiss, education, an article, "The Individual is the Secondary School Reading Program," in the January issue of Memo to Teachers.

D. B. Harris, psychology, an article titled "A Note on Some Ability Correlates of the Raven Progressive Matrices (1947) in the Kindergarten," in the Journal of Educational Psychology; also two articles in Child Development—"Life Problems and Interests of Adolescents in 1935 and 1957" and "Sex Differences in the Life Problems and Interests of Adolescents, 1935 and 1957."

H. H. Chapman, Jr., Romance languages, a paper titled "Moliere in England's Green and Pleasant Land" at the annual meeting of the Modern Language Association in Chicago.

• Lectures and Talks

E. C. Wareham, Jr., music, a talk before the Altoona Horseshoe Radio Club today on "The Use of Electronic Equipment in a University Music Department."

Frances M. Andrews, music, two lectures on "The Development of the Music Curriculum in the Secondary School" at the Ohio Music Educators Conference at Columbus, Ohio, Dec. 4, 5.

N. C. Pendered, industrial arts education, a talk on "Industrial Arts for Girls," at the 53rd annual convention of the American Vocational Association in Chicago.

• Books

R. B. Helfgott, economics, co-author of "Made in New York: Case Studies in Metropolitan Manufacturing," the second of nine volumes pertaining to the New York area based on a survey by the Graduate School of Public Administration, Harvard University.

Handicapped—

(Continued from page one)

visor of special education, will work closely with University staff members in developing the program.

The building will have three classrooms, office and conference space, and observation rooms. The staff will include many staff members interested in the problem, in such areas as physical education, music, psychology, and various education fields. The primary interest, at least in the beginning, will be the study of the educational and vocational problems of the mentally retarded. The University will continue its study of many types of children's problems in other areas.



SIEGEL



FOURAKER

Win AAAS prize

Dr. Sidney Siegel, associate professor of psychology, and Dr. Lawrence E. Fouraker, assistant dean for research in the College of Business Administration, are authors of a monograph which has been named for the Monograph Prize Award in the Social Sciences of the American Academy of Arts and Sciences.

The title of the paper is "Bargaining and Group Decision Making," with a subtitle of "Experiments in Bilateral Monopoly."

A \$1,000 prize accompanies the award. McGraw-Hill Publishing Co. will publish the results of the research in book form in the Spring. The research was conducted under grants from the National Science Foundation and the Ford Foundation.

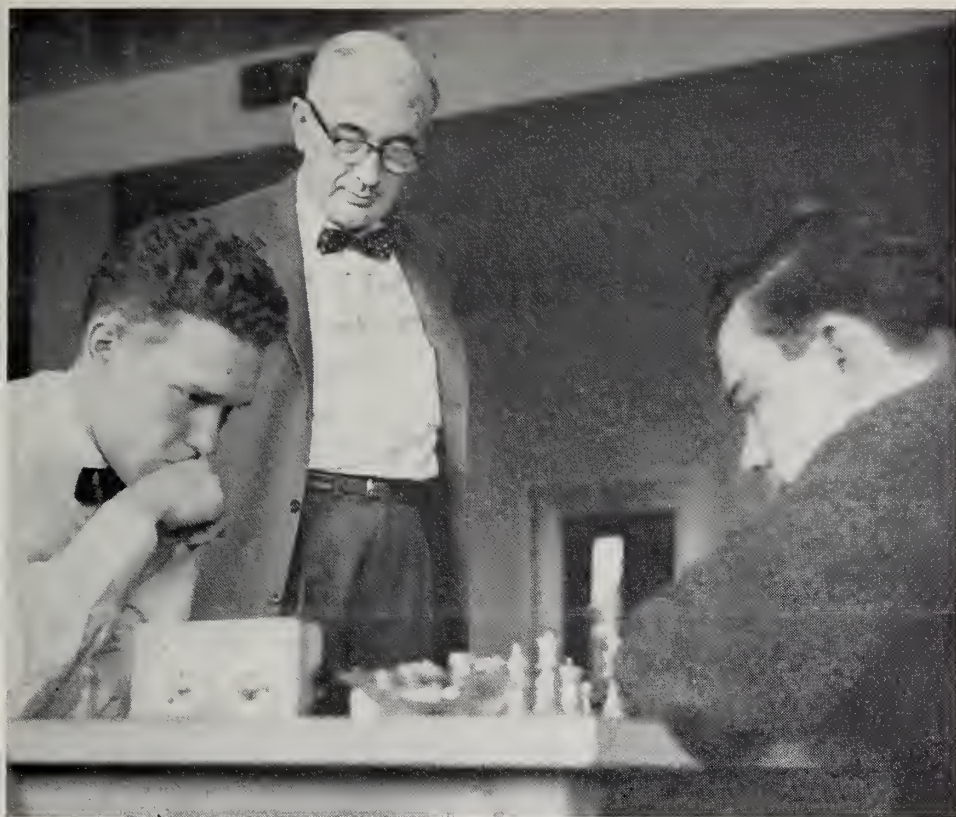
The monograph provides basic information on bargaining behavior and demonstrates the fruitfulness of the use of experimental methods in studying experimental problems, the authors point out. The work is considered fundamental to the growing field of decision making, the study of choices made by individuals and by groups.

Dr. Fouraker is currently studying at Harvard University's Institute of Basic Mathematics for Application to Business, one of 40 professors in the country who received a Ford Foundation fellowship for this purpose.

Dr. Siegel, whose research has been concerned with decision making, was a Fellow at the Center for Advanced Study in the Behavioral Sciences, which is supported by the Ford Foundation, in the 1957-58 academic year.

Weisgall lectures tonight

Dr. Hugo Weisgall, distinguished visiting professor of music, will continue his series of lectures on "Twentieth Century Lyric Theatre" tonight at 8 p.m. in the HUB assembly room. He will speak on "Tradition and Revolution" and the lecture is open to the public.



Dr. Orrin Frink, head of the mathematics department, observed play during the recent National Collegiate Chess tournament at the HUB. He is adviser to the Chess Club and coach of the chess team which has compiled a spotless record in intercollegiate competition this year. Interest in chess, says Dr. Frink, has increased greatly here.

Chess gains adherents here

Interest in the sport of chess has reached an all-time high on campus and is drawing attention of both students and faculty.

The Penn State Chess team was recently granted varsity status and the Chess Club was host to the National Intercollegiate Chess Championships.

Included in the membership of the Chess Club are a number of faculty members. Dr. Orrin Frink, head of the department of mathematics, is adviser to the Club and coach of the team.

"The level of competition is quite good," says Dr. Frink, "and any faculty member desiring stern tests will find them. Some of the students have U.S. Chess Federation ratings in the 1900s, which places them in the near-master class. I doubt that many faculty members would have as high a rating.

"On the other hand, the Club encourages beginners to join and will provide instruction for anyone wishing to learn the game."

It is pointed out that chess as an organized activity has been played at Penn State for many years, and matches have been held in years past with Haverford, Penn., and Pitt, among other colleges. The Club has gained consid-

erable strength in the last few years and chess has a hold at other campuses as well, notably at Ogontz, Altoona, and McKeesport.

The Chess Club meets every Wednesday evening in the HUB cardroom. On occasion, the members participate against chess clubs in other areas. Recreation, as well as competition, is stressed by club members.

The Chess team, made up entirely of undergraduate students, competes against teams at other colleges and universities and has compiled an enviable record this year in such competition.

Book to be translated

The book, "Adventuring in Home Living," by Dr. Hazel M. Hatcher, professor of home economics education, and Mrs. Mildred Andrews, has been selected for translation into the Arabic language.

Permission was sought from the authors and publisher by the United States Information Agency "because this book will represent an extremely important pioneering contribution in the Arab world."

White retires Jan. 31

Dr. Marsh W. White, professor of physics, will retire Jan. 31 with the title of professor emeritus of physics after teaching for 42 years.



WHITE

Holder of the first doctor of philosophy degree from Penn State, Dr. White graduated from Park College, Parkville, Mo., with honors, in 1917 and accepted an appointment to Penn State as instructor

in physics. In 1920, he was granted the master of science degree by Penn State and in 1926 the doctor of philosophy degree.

In 1950, Park College honored him as "Distinguished Alumnus" and last year awarded him an honorary doctor of science degree.

During World War II, Dr. White, while on leave, served the War Department as adviser on the placement of enlisted men with scientific and technical skills in responsible positions where the skills could be used.

Author or co-author of five text books, Dr. White plans to continue his writing, keep up with developments in his field, travel, and continue his work with Sigma Pi Sigma, physics honor society, for which he has acted as secretary since 1928.

One of his major interests has been Delta Chi social fraternity. He helped to found the local chapter and has served as director of scholarship, national treasurer, national secretary, and national president.

Photostat charges changed

Pattee Library has announced a new schedule of rates for photostat work done by the Library Photo-Duplication Service. Effective Jan. 1, the new rates involve increases in the charges made for photostating and microfilming and are designed, says University Librarian Ralph W. McComb, "to bring yearly receipts in line with expenditures for this service."

French, Dean Ray succumb

Dr. Cyrus E. French, who served for 20 years in the department of animal nutrition before resigning to take a post with UNICEF in 1958, died last Sunday, at the age of 44.

Charlotte E. Ray, dean of women from 1923 until her retirement in 1946, died on Dec. 16 at her home in Pittsburgh after a long illness. She was 79.

Calendar

Friday, Jan. 8

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Robert Scholten, associate professor of petroleum geology, on "Origin of the Bosphorus."

American Chemical Society meeting, 8:30 p.m., Room 119, Osmond. Dr. David Kritchevsky, Wistar Institute, University of Pennsylvania, on "Cholesterol."

Meeting of faculty of College of Agriculture, 4:15 p.m., Room 109 Armsby.

Center Stage production of "John Gabriel Borkman," by Henrik Ibsen, 8 p.m.

Fluid Mechanics Seminar, 4:15 p.m., Room 102 Sackett. Carl R. Miller, Watershed Technology Research Branch, Agricultural Research Service, U.S. Dept. of Agriculture, on "Research on the Sediment Hydraulics of Alluvial Channels."

Lecture by Dr. Hugo Weisgall, distinguished visiting professor of music, on "Tradition and Revolution," 8 p.m., HUB assembly room.

Saturday, Jan. 9

Basketball, versus West Virginia, 8 p.m.
Center Stage production of Henrik Ibsen's "John Gabriel Borkman," 8 p.m.

Sunday, Jan. 10

Chapel Service, 10:55 a.m., Schwab Auditorium. Lawrence E. Dennis, vice-president for academic affairs.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Monday, Jan. 11

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Philip Young, professor of American literature, on "J. D. Salinger, or the Missing Magazines."

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A", A. V. Sharma, on "Transient Thermal Stresses in a Circular Cylinder," and J. L. Martin on "The Advantages of Using Vector Analysis in Teaching Statics and Dynamics."

Lecture by Dr. Chester A. Swinyard, Bellevue Medical Center, 8 p.m., Mineral Industries Auditorium, on "Neurophysiologic Bases of Language," sponsored by Sigma Xi and the Speech and Hearing Clinic.

Tuesday, Jan. 12

Plant Science Club, 7:30 p.m., Room 111 Tyson. Dr. Martin Schein, assistant professor of animal behavior, on "Animal Behavior and Poultry Research in the Ukrainian S.S.R."

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. Dr. Louis M. Hacker, distinguished visiting professor of history, on "The Institutional Aspects of Growth in the American Economy, 1865-1900."

Joint Philosophy Colloquium and Philosophy Club meeting, 3:45 p.m., Room 214 Hetzel Union Building. Henry W. Johnstone, associate professor of philosophy, on "Reasons Limited." Public invited, refreshments will be served.

Panel discussion, "Patents and Creativity," sponsored by the College of Engineering, with Albert H. Jacobson, Maurice S. Gjesdahl, Thomas E. Sterling, 4:15 p.m.

Wednesday, Jan. 13

Graduate Mining Seminar, 3 p.m., Room 24, Mineral Industries. Joseph Pinto, Jr., on "Mining System for Dipping Limestone at Bellefonte, Pa."

Forestry Convocation, 11 a.m., Room 121 Sparks. James F. Heagy, American Water Works Service Co., Inc., an illustrated lecture on "Watershed Management on Municipal Forest Properties."

Friday, Jan. 15

Mineral Industries Colloquium, 4:15 p.m., Room 26, Mineral Sciences. Donald W. Mitchell, assistant director of dust explosions research section, U.S. Bureau of Mines, on "Research at the Bureau of Mines Experimental Coal Mines."

Fluid Mechanics Seminar, 4:15 p.m., Room 102 Sackett. Dr. Leo Steg, manager, Aero Sciences laboratory, General Electric Co., and Dr. Walter Warren, General Electric Co., on "Plasma Flow Generation in the Arc Drives Tunnel."

ACS meeting tonight

Dr. David Kritchevsky, of the Wistar Institute, University of Pennsylvania, will speak on "Cholesterol" at the next meeting of the Central Pennsylvania Section of the American Chemical Society. The meeting will be held on Friday, Jan. 8 at 8:30 p.m. in Room 119 Osmond.

Viruses subject of lecture

Dr. Roger M. Herriott, head of the department of biochemistry at The Johns Hopkins University, will speak on "Viruses and Biologically Active Nucleic Acids" on Friday, Jan. 15, in the current Biological Sciences Lecture Series.

The lecture will be given at 4:15 p.m. in Room 109 Armsby.

Prior to accepting his present position in 1948, Dr. Herriott was research associate at the Rockefeller Institute at Princeton, N.J.

Art exhibit begins

A new art exhibit, titled "Art of Adolescence," has opened at the Hetzel Union Building art gallery. It consists of paintings of adolescents from 29 countries, and will remain until Jan. 23.

Finance on TV

A course in Personal Finance, Commerce 8, will be given via open circuit television during the Spring Semester.

The arrangement will enable students who schedule the course for credit to attend classes in the television room of their fraternity houses or at any point where a television set is available.

The viewing public in the WFBG-TV (Channel 10) area will also be able to attend classes, which will be held at 9 a.m. on Monday, Wednesday, and Friday, beginning Feb. 8.

The course is concerned with personal management of budgets, bank accounts, loans, credit buying, insurance, real estate, and security buying.

Arthur L. Williams, instructor in insurance, is in charge of the television course. The same course, without television facilities, will be given by Albert F. Williams, instructor in commerce.

Other faculty members from the Colleges of Business Administration and Home Economics who will teach the course are: David H. McKinley, Joseph F. Bradley, M. Virginia Britton, Richard M. Colwell, Joseph P. Giusti, S. Paul Mazza, Jr., Ralph H. Wherry, and Charles F. Woodring, Jr.

To receive credit for the course, students must schedule it at registration and must pass two evening examinations and the final exam. They may view the daily classes at designated rooms on the campus or any place that television facilities are available.

Text for the course will be "Personal and Family Finance" by Bradley and Wherry.

Those of the general public who pay the usual registration fee may also schedule the course for credit.

faculty BULLETIN

Vol. 47, No. 15

Jan. 8, 1959

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Penn State Collection.
Pattee Library.

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

New television series

Two new television series produced by the University will begin soon over station WFBG-TV, Altoona, Channel 10.

Starting Sunday, at 5 p.m., and continuing every other week on the station's program "Eye of Channel 10" will be an educational-informational series in seven parts on Russia's progress in space, education, propaganda, productivity, and military affairs.

Originating on campus, the series will have Dr. Vernon V. Aspaturian, associate professor of political science, and Gilbert S. Aberg, radio-television specialist in the department of public information, as permanent panel members.

The guests on the first program will be Dr. Neal Riemer, associate professor of political science, and Dr. Allan L. Rodgers, associate professor of geology. Russia's rising power and prestige will be discussed.

Starting Jan. 23 will be a series of telecasts which will be of interest to parents who want to learn more about the techniques of teaching children to read, on from 9-9:30 a.m. Saturday.

The program, supported by a National Defense Education Act grant, is part of a research project to demonstrate to teachers many of the new ideas in teaching reading.

Dr. Lyman C. Hunt, associate professor of elementary education, is director of the project, which enlists the aid of more than 300 teachers in the WFBG-TV viewing area. The teachers will view the telecasts and help Dr. Hunt measure the degree to which teachers can find valuable ideas for the reading instruction through participation in a television series.

Professor limited in politics

THE university professor has become a standard fixture in American political life, but there are certain limitations upon his performance in this role, says Dr. Robert W. Iversen, assistant director of the Center for Continuing Liberal Education.

Speaking before the American Historical Association in Chicago on Dec. 29, Dr. Iversen discussed the "Limitations on Professorial Political Involvement" and noted that "the political role of the . . . professor . . . still lacks definition."

"The limitations (under which the professor works) can be gathered under two broad headings: external and internal, or those stemming from the American scene and those stemming from the professor's conception of his role.

"In the first category would be considered societal, partisan and institutional limitations; in the second, professional and personal limitations."

Society, Dr. Iversen points out, imposes many limitations upon the actions of its members; many seem irrational to the professor. First, there is Democracy's spurts of political enthusiasm followed by apathy.

"At the local level, where more sustained political involvement is possible, the professor is also limited. The town and gown conflict persists. The community view of the professor as a transient malcontent who wants to re-shape a community in which he has no intention of remaining, effectively limits his political role . . .

Up from the ranks

"The limitations imposed by the political parties themselves center on the age-old round between the party professionals and the theorists. Because of his restricted participation in precinct politics, the professor can be accused of failing to rise through the ranks. His traditional unwillingness to accept the menial assignments which have become the essence of political apprenticeship does not win him friends . . . It must be noted that none of these limitations is insurmountable, and it is becoming increasingly common for the professor to drop out of character to attain truly significant involvement in local party politics . . .

"Institutional limitations upon the professor vary according to the university's relations with its public . . . Few universities encourage professors to enter politics, if for no other reason than that it takes time away from the job of education. But there are other reasons, most of which hinge upon public

Dr. Robert W. Iversen says that the paper described in the accompanying article is a follow-up of some aspects of his research for the book, "The Communists and the Schools," which was published by Harcourt, Brace and Co. in October.



This book deals with what Dr. Iversen calls an "illegitimate form of political involvement; the paper concerns itself with the possible varieties of "legitimate" political participation.

Dr. Iversen spent four years in research for the book, which has been favorably reviewed in the press throughout the country. Fred M. Hechinger, in the New York Times, says in part " . . . he has produced a masterful portrait of one of the most vital though painful chapters of the history of America in this controversial century . . . The facts are all here, and the research is painstaking; but with the skill of the good historian, Mr. Iversen has made history what it is: life as was lived and fought."

"The Communists and the Schools" is the second in a series on Communism in American Life, which was commissioned by the Fund for the Republic.

Dr. Iversen came to Penn State in July, 1958, from Drake University. A graduate of the University of Minnesota, with master's and doctor's degrees from the State University of Iowa, his teaching experience included three years at Iowa, six at Drake, and a year as visiting assistant professor of history at Columbia University.

relations, and even the occasional political scientist who is permitted to serve an 'internship' in the real political world must keep his fences mended and not overstay his term lest he find that politics have undermined his departmental or institutional position."

Internal limitations, Dr. Iversen points out, include: 1) the American tradition of professorial neutrality as the price to be paid for academic freedom; 2) the demands of disciplinary status-seeking, and 3) the apparent satisfaction of traditional political drives within the academic profession itself.

The German philosophy of the professor's role, of "convincing" his students of his personal position, is not generally shared in the United States, Dr. Iversen explains, although Dewey's concept of the school approaches this position. The AAUP, at its founding in 1915, raised the question of how far the professor should go in the management of party organizations, or as candidates for office of distinctly political character. But, it is pointed out, the AAUP reserved the problem for future consid-

(Continued on page two)

Statistics on students

About half of all the students who enroll each fall can be expected to graduate in four or five years, but approximately two-thirds who were in the upper fifth of their high school class will ultimately graduate from Penn State.

These and other statistics compiled by the Office of the Dean of Admissions and Registrar are given in a summary which is available on request at the office of W. R. Haffner, Ext. 5-6357, Room 4 Willard.

Called the "Ninth Annual Retention Study," the compilation shows that from 5.5 to 8 per cent of the freshman class will probably withdraw at the end of the first year, from 5 to 10 per cent will be dropped; and from 12 to 16 per cent will not return for other reasons, judging from the experiences of the freshman classes from 1953 through 1958. On this basis, from 68 to 76 per cent will enroll in the fall one year after original admission, most as sophomores.

A comparison of the freshman classes of 1953 and 1958 shows almost the same percentage (72.6 versus 71.9) of the students admitted registered the fall following admission.

In the 1958 freshman class, of those students who were in the upper-fifth of their graduating class, 81.4 per cent have registered this fall, and of those in the second-fifth, 70.0 per cent have registered. However, of those in the third-fifth only 62.7 per cent have registered, 57.9 of the fourth-fifth, and 44.8 per cent of the fifth-fifth.

In the 1954 freshman class, of those students who were in the upper-fifth of their high school graduating class, 64.2 per cent have already graduated from Penn State, and 46.2 per cent of the second-fifth. Only 26 per cent of the fifth-fifth students have graduated, and 32.4 per cent of the fourth-fifth. Of the total, 49.2 per cent have already graduated.

Programs for trade unions

Three new educational programs for trade unions in Pennsylvania have been established by the department of labor education.

Beginning this week, Albert J. Humza, instructor in labor education, is conducting a program on grievance administration for Steelworkers Local 5227 at Reading.

Charles Steinberg, also instructor in labor education, will direct a program on grievance administration and union leadership for the International Association of Machinists Local 1060 in Pittsburgh and a program on union administration for the American Federation of Teachers Local 400.

Professor —

(Continued from page one)

eration and has not to this day taken a position on the matter.

The professor's drive "for status within [his] discipline, whether through merit, politics, or a combination thereof, scarcely leaves time for involvement in traditional party politics. In fact, it has been argued that the demands of scholarly achievement may actually be detrimental to effective political participation . . . This time-consuming quest for certainty [which is the hallmark of the scholar] can be paralyzing in politics. This quest for universality can lead to dogmatism in public affairs."

Academicians, argues Dr. Iversen, have been forced into overspecialization either through the search for disciplinary prestige or the security of absolute command over a bit of obscure terrain. Governments make use of the technical ability of the professor but the assignments carry no political involvement.

"Government," he says, "does not demand from its technicians the perspective, the breadth, and the imagination which constitute the essence of the intellectual."

The motives for entering politics

which apply to men generally—economic, companionship, understanding, power—may apply to professors, but, Dr. Iversen asks, would he not also satisfy these motives in his profession, and perhaps to a greater degree? "Nevertheless the fact is that politics continues, policies are formed, and ever greater numbers of professors are refusing to be merely the consumers of the politics determined by others."

There are three possible bases for political involvement: the non-partisan, the partisan, and the supra-partisan, Dr. Iversen says. The first is that of the mental technician and is apolitical; the second is openly partisan; and the third, is the "independent carrier of reason" to men in power. In the partisan and supra-partisan roles, the intellectual assumes responsibility for and wishes to be identified with uses to which his knowledge is put.

"In a democracy," Dr. Iversen concludes, "a major role of the politician has long been that of an educator of the masses, and the politician has prided himself in his mastery of the art of what is really possible."

"Now it would seem that the task of the educator-as-politician should be defined as that of articulating the possibilities of reality."

Items of Interest

• Articles and Papers

H. J. O'Brien, speech, a paper titled "Parliamentary Procedure in Labor Organizations" at the Speech Association of America convention in Washington, D.C.

M. A. Mook, anthropology, an article, "Quaker Knowledge of Quaker Folklore," published in a recent issue of the *Keystone Folklore Quarterly*, a publication of The Pennsylvania Folklore Society.

H. H. Chapman, Romance languages, a book review of Renee Riese Hubert's "Le Berceau d'Eve" in the December issue of the *French Review*.

R. T. Oliver, speech, a paper in the *Quarterly Journal of Speech*, titled "The Confucian Rhetorical Tradition in Korea during the Yi Dynasty (1392-1910)."

Albert E. Siegel, child development, co-author of an article titled "Dependence and Independence in the Children of Working Mothers," in the publication, *Child Development*.

E. C. Thaden, history, a paper on "The Role of Aristocracies" at the meeting of the American Historical Association.

E. F. Olver, security, an article "Can You Top Penn State" in the January issue of "Safety Education," a maga-

zine for teachers and school administrators.

• Lectures and Talks

W. F. Workmaster, Pennsylvania Historical Collections, a talk before the Pennsylvania State Education Association, Harrisburg, Dec. 30, on "The Importance of State and Local History in American Education."

H. A. Panofsky, meteorology, a review of the knowledge of meteorology of the lower stratosphere at a meeting of the United Nations Scientific Committee on the Effects of Atomic Radiation in New York this week.

P. S. Skell, chemistry, the colloquium address at the Monsanto Chemical Co. at Springfield, Mass., on "Stereochemistry of Radical-Olefin Addition Reactions."

J. J. Kaufman, economics, in two panel discussions at the conventions of the Industrial Relations Research Association and the American Economic Association, on the problem of chronic unemployment.

W. C. Fernelius, chemistry, a series of lectures on the subject "General Trends in the Stability of Coordination Compounds," before American Chemical Society sections at South Bend, Ind., Kalamazoo, Ann Arbor, East Lansing, Grand Rapids, Midland, Detroit, and Port Huron, Mich., and Toledo, Ohio, Jan. 11-21.

Art exhibit at Altoona

An exhibit of works of art owned by residents of the Altoona area is now on display at the Altoona Campus and will continue until Jan. 31.

Included in the exhibit are 34 works, including two Picassos, two Riveras, three Daumiers, and a Miro. Samples from the schools of expressionism, cubism, surrealism, and abstract expressionism are noted in the exhibit.

A 21-inch bronze sculpture by Emilio Greco, acquired by the Altoona Campus Student Fund only recently, is also on display. It was purchased in Italy.

George Gunther, instructor in art, is coordinator of the exhibit.

Headlines in chemistry

Completing its 12th year of successful radio programs is "Headlines in Chemistry," a weekly production of a number of faculty members as a public service broadcast heard over WMAJ.

At present, Gordon H. Pritham, Albert H. Holtzinger, and Ralph G. Ascah are responsible for preparing the script, aided by a staff of reporters. A special feature of the program is the taped interview with prominent chemists visiting the University by Lucille Strauss, chemistry librarian.

The basic script for the program is provided by the American Chemical Society and the local chemists edit the material. Stations in Huntingdon, Lewisburg, and Danville also make use of the script. For a number of years stations of the Laurel Network used a tape of the program also.

Orchestra concert Sunday

A program of music completely new to State College is planned by the University Symphony Orchestra for its concert on Sunday, Jan. 17 at 3 p.m. in Schwab Auditorium.

Theodore K. Karhan, associate professor of music, will conduct the Orchestra in its annual winter concert.

Bedrich Smetana's "The High Castle," first of a cycle of tone poems, will open the program. Sibelius' Third Symphony, Aaron Copland's "Quiet City" and Handel's Concerto for Organ and Chamber Orchestra will follow. George E. Ceiga, University organist, will be soloist for the Handel work.

The concert is open to the public and is free.

Safety stressed in art

About 50 paintings illustrating safety by children of the public schools in Centre County are on display in the HUB gallery.

Demonstrating that art can be used effectively to teach children practices of safety, the paintings are actually a

method of projecting the youngster into the safety situation, explains Viktor Lowenfeld, head of the department of art.

A pilot project in this method of teaching was started three years ago here and has been so successful that it is widely used in schools throughout the country. A publication, "Safety through Art," which is edited by Lowenfeld, Frank Anthony, assistant professor of agricultural education, and Carson F. Metz, of the State Department of Public Instruction, resulted from the project and now has a circulation of 35,000 in 15 states and four other countries.

In preparing their exhibit, the youngsters were given a situation to illustrate—such as what would happen to them if they climbed up a step ladder which broke. The picture then would illustrate what they would feel in these circumstances. The value of the painting is to the artist himself, in learning safety.

Films to be previewed

Films listed below have been requested from producers. Please call UN 5-6314 and give code number of those you would like to see; you will be notified when they arrive so that you can arrange a preview showing in Room 9, Library.

- J-1 Reading Music: Learning about Notes
- J-2 Reading Music: Finding the Rhythm
- J-3 Reading Music: Finding the Melody
- J-4 Folk Songs of America's History
- J-5 Your Child's Safety
- J-6 Alaska Today
- J-7 An Adventure with Andy (primary language arts)
- J-8 Listen, Please (Supervisory training)
- J-9 Adventure in Science: The Size of Things
- J-10 Lava and the River (Columbia Plateau)
- J-11 Battle of the Bugs (natural control of pests)
- J-12 New Road Ahead
- J-13 How He Became an Alcoholic
- J-14 The Decroux Film (theatre arts)
- J-15 Art and You
- J-16 What Shall We Paint?
- J-17 Starting Nursery School: Patterns of Beginning
- J-18 Health Heroes: The Battle Against Disease
- J-19 Wilderness of Zin (archaeology in Israeli's Negev)
- J-20 Water, Lifeblood of the West

UCA sponsors lecture

Dr. J. Coert Rylaarsdam, of the University of Chicago, will lecture on "Faith and Culture" on Saturday, Jan. 16 at 8:30 p.m. in the lounge of the Helen Eakin Eisenhower Chapel.

The lecture is sponsored by the Faculty Committee of the University Christian Association for faculty members and graduate students.

Author of many writings in the field of Biblical criticism and interpretation, Dr. Rylaarsdam is professor of Old Testament theology on the Federated Theological faculty of the University of Chicago. He is co-editor of the Journal of Religion.

Calendar

Friday, Jan. 15

Mineral Industries Colloquium, 4:15 p.m., Room 26, Mineral Sciences. Donald W. Mitchell, assistant director of dust explosions, research section, U.S. Bureau of Mines, on "Research at the Bureau of Mines Experimental Coal Mines."

Fluid Mechanics Seminar, 4:15 p.m., Room 102 Sackett. Dr. Leo Steg, manager, Aero Sciences laboratory, General Electric Co., and Dr. Walter Warren, General Electric Co., on "Plasma Flow Generation in the Arc Drives Tunnel."

Center Stage production of Henrik Ibsen's "John Gabriel Borkman," 8 p.m.

Biological Sciences Lecture, by Dr. Roger M. Herriott, Johns Hopkins University, on "Viruses and Biologically Active Nucleic Acids," 4:15 p.m., Room 109 Armsby.

Saturday, Jan. 16

Lecture by Dr. J. Coert Rylaarsdam, professor of Old Testament Theology, University of Chicago, on "Faith and Culture," 8:30 p.m., Helen Eakin Eisenhower Chapel lounge, sponsored by the faculty committee of the UCA.

Graduate Student Association square dance for faculty members and graduate students, 8:30 p.m. at Hillel Foundation, 224 Locust Lane.

Sunday, Jan. 17

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Reverend Sam Gibson, executive director, UCA.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. J. Coert Rylaarsdam, professor of Old Testament Theology, University of Chicago.

Concert by University Symphony Orchestra, conducted by Theodore Karhan, Schwab Auditorium, 3 p.m.

Rufus Jones Lecture, 8 p.m., Room 121 Sparks. David S. Richie, executive secretary of the Friends Social Order Committee of Philadelphia, on "Pick and Shovel Peacemaking," sponsored by the State College Friends Meeting and the UCA.

Monday, Jan. 18

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. William H. Powers, associate dean of Commonwealth Campuses, on "Continuing Education of Science Teachers."

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A". M. P. Gaus, assistant professor, on "Rapid Brittle Crack Propagation in Low-Carbon Steels."

Tuesday, Jan. 19

Joint technical meeting of AIEE and IRE, 7:15 p.m., Mineral Industries Auditorium. Roy Mershon, Weston Instrument Co., on "Trends in Electrical Measuring Instruments."

Meeting of the University Park Federal Credit Union, 8 p.m., Room 205 Boucke. Election of officers.

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. Martin T. Broadhurst, research associate in physics, on "Dielectric Behavior and Crystal Structure of Ethyl and Vinyl Stearate."

Wednesday, Jan. 20

Classes end 11:50 a.m.

Thursday, Jan. 21

Fall semester examinations begin, 8 a.m.

Meeting of the Central Pennsylvania section of the Society for the Advancement of Management, Autoport Restaurant. A. L. Liem, vice-president for business administration, on "Management's Responsibility."

Library announces hours

The Pattee Library has announced the following hours for the period between semesters:

Jan. 19-22 — 7:50 a.m. to 10 p.m.*; Jan. 23 — 7:50 a.m. to 5 p.m.; Jan. 24 — 2 p.m. to 10 p.m.*; Jan. 25-28 — 7:50 a.m. to 10 p.m.*; Jan. 29 — 7:50 a.m. to 5 p.m.; Jan. 30 — 9 a.m. to 12 noon; Jan. 31 — closed.

Feb. 1-5 — 9 a.m. to 5 p.m.; Feb. 6 — 9 a.m. to 12 noon; Feb. 7 — closed; Feb. 8 — 7:50 a.m. to 10 p.m.

On days marked with *, certain reading rooms will remain open until 11 p.m.

ACS names officers

Officers have been named for the current year by the Central Pennsylvania Chapter, American Chemical Society. They include: Dr. Joseph A. Dixon, associate professor of chemistry, chairman; Dr. Harold L. Lovell, assistant professor of mineral preparation, vice-chairman; Dr. Philip S. Skell, associate professor of chemistry, treasurer; and Dr. Jennings H. Jones, associate research professor of chemistry, secretary.

Credit union meets

The first annual meeting of the University Park Federal Credit Union will be held on Tuesday, Jan. 19 at 8 p.m. in Room 205 Boucke. President Gerald M. Moser will preside at the meeting, which is for all members. Election of officers for the coming year will be held.

SAM meeting Thursday

A. L. Diem, vice-president for business administration, will be the speaker at the dinner meeting of the Society for the Advancement of Management, Central Pennsylvania section, at the Autoport Restaurant on Thursday, Jan. 21.

He will speak on "Management's Responsibility."

Merkle, emeritus, dies

Dr. Frederick G. Merkle, professor emeritus of soil technology, died on Wednesday, Jan. 6 at Centre County Hospital. He was 68 and had retired in 1957 after 38 years on the faculty. He had earlier taught at the University of Massachusetts where he had received his bachelor's and master's degrees. He was granted the doctorate degree by Cornell University.

Rufus Jones lectures

David S. Richie, executive secretary of the Friends Social Order Committee of Philadelphia and Director of the Philadelphia Volunteer Weekend Workcamps, will present the next Rufus Jones Lecture on Sunday, Jan. 17 at 8 p.m. in Room 121 Sparks.

He will speak on "Pick and Shovel Peacemaking." The lecture is sponsored by the State College Friends Meeting and the University Christian Association.

In 1946 Richie was sent by American Friends Service Committee to Poland for relief work and organized the first international voluntary workcamp in that country the following year. He has since participated in workcamps in Finland, Germany, Italy, and other European countries. He participated in the 11th Conference of International Workcamp Organizers in New Delhi, India, in 1957.

Aid highways department

A training program organized by Calvin G. Reen, professor of civil engineering, is now underway to aid some 200 employees of the Pennsylvania Department of Highways improve in their jobs.

The subjects being given include mathematics, blueprint reading, elementary surveying, construction practices and specifications, records and reports, and materials testing.

Teachers for the courses are Highways Department staff members.

Former librarian dies

Miss Kathryn Stanford, who was agricultural librarian from 1919 to 1934, died in St. Petersburg, Fla., last Friday and is to be buried in Edinboro, Pa. today.

Medical college tests

Students who will be candidates for admission to medical schools in the fall of 1961 should take the admission test in May of this year, Educational Testing Service advises.

The Service points out that many medical colleges begin the selection of entering classes in the fall preceding the year of admission. Since tests will be given only on Saturday, May 7 or Saturday, Oct. 29, the latter test would be too late for many schools.

Dr. Leon R. Kneebone, 117 Buckhout Lab, has copies of informational bulletins.

New policy on supplies

Departments have been advised that beginning Feb. 1 a new policy on the ordering of supplies for first aid kits will be in effect.

In the future, all supplies will be ordered from the University Health Center on a semi-annual basis (Aug. 1 and Feb. 1) rather than from the Safety Division as in the past.

The Health Center will bill each department or college for the supplies obtained.

Pugh exhibit at library

An exhibit of memorabilia concerning Penn State's first president, Evan Pugh, is on display in the lobby of the Pattee Library and will remain until the end of January. Next month marks the 100th anniversary of Pugh's inauguration.

Square dance Saturday

The Graduate Student Association will hold a square dance at the Hillel Foundation, 224 Locust Lane, on Saturday, January 16 at 8:30 p.m. Faculty members and graduate students are invited.

faculty BULLETIN

Vol. 47, No. 16

Jan. 15, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Mairs, Mrs. T. I.
Cent Library

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Shopping mall project

A unique class project in architecture will be unveiled Sunday to an invited group of 200 University and Borough officials and interested businessmen.

Under the direction of A. William Hajjar, professor of architecture, the fifth year architecture class has developed a plan for converting South Allen St., between College Ave. and Beaver, into a shoppers' mall.

Models of the mall and plans will be displayed in the HUB Gallery and the public will be able to view the exhibit on Monday, Jan. 25 and thereafter for the balance of the week.

The State College Planning Commission has given some consideration to a shoppers' mall in the past and Hajjar's class decided to use this as a class project. Their efforts differed from those of other classes in that considerable research was done by the students themselves, in making traffic counts and exploring the business requirements of the area.

Hajjar explains that the project as developed by a professional architect would be very costly.

Commencement Jan. 31

Fall semester Commencement Exercises will be held in Recreation Building on Sunday, Jan. 31 at 2 p.m.

Faculty members who plan to be part of the procession should meet, in academic regalia, at 1:45 p.m. under the south balcony of Recreation Building.

The procession will be led by Dr. Hummel Fishburn and Dr. P. C. Weaver.

No tickets are required for admission to the exercises.

Inaugural address, 1860

In mid-February, 1860, Dr. Evan Pugh addressed the student body of the Farmers High School of Pennsylvania on the subject, "On the Mutual Relations of the Teacher and the Taught."

This was the inaugural address of the first president, although he had been on campus since Oct. 26, 1859 and in his first day at the new school, at dinner time, had given a short, but pithy, talk. In the intervening months, the firm hand which the new school needed was amply demonstrated by the 31-year-old president. His inaugural address showed that he would tolerate no foolishness from the students, but on the other hand, he didn't think that more than 5 or 6 per cent of the students were really "evil-disposed."

Although the official name of the school was Farmers High School, Dr. Pugh suggested that he considered it more than a high school in addressing the students, "You are here as members of the first Agricultural College which has gone into successful operation in the United States."

The inaugural address was designed to impress on the student his responsibility at the new college. Many of his statements would seem to apply as well today as a hundred years ago, such as this passage: "There are beneath the roofs of many of our colleges, numbers of students who are constantly affording practical demonstrations of the fact that they believe the interests of the teacher and the taught are inimical to each other . . ."

Discipline problem

Discipline in the classroom and outside was obviously a problem and President Pugh spent a considerable part of his talk discussing the students' "code of honor" which was described as requiring "each student to conceal the insubordinate act of his fellows from the knowledge of his teachers."

After a discussion of the five or six per cent who were the undesirable element in the student body, Pugh turned to the others:

"... as members of the Farmers High School of Pennsylvania, a great responsibility rests in your hands and in ours. We are here with the eyes of the friends of agricultural education, in every civilized country in the world, resting upon us — we are here for the avowed purpose of trying an experiment which has never been successfully performed in any country in the world — a great experiment which has been entertained in the minds of philanthropic men, and able statesmen, and learned

political economists wherever civilization and modern agriculture have gone hand in hand."

The student body in the second session (the new school had opened its doors in 1859) numbered 110 and, including Pugh himself, there were five on the faculty. It is not quite certain where Pugh's inaugural address would have been given but it seems likely that, if he addressed the entire student body at once, it must have been in the dining halls, which were mere shacks in back of the incomplete Old Main. There was no assembly hall large enough in the finished part of the building to handle a hundred or more people.

Around Old Main stood the bricks and stones of the unfinished parts of the building and the "campus" was nearly barren of life, except for the struggling nursery of trees planted by William Waring, the superintendent and professor of horticulture. It was a gloomy picture for the newcomers and perhaps it was no wonder that discipline was a problem, and that the President should find it necessary to devote his entire inaugural address to the subject.

Applications increase

Applications for admission to the University for the fall semester freshman class are running one-third ahead of last year and nearly three-fourths ahead of two years ago.

Already more than 15,000 high school students have asked for application blanks and 7,400 have returned the blanks.

Letters of intent have been mailed by the Admissions Office to nearly 2,700 of those from whom applications have been received.

As yet, no final figure on the number of new freshmen to be admitted has been decided on.

TV show Sunday at 5

Another television show concerning the University will be shown on WFBG-TV, Altoona Channel 10, on Sunday, Jan. 24 at 5 p.m., on the program called "Eye of Channel 10."

The half-hour program will be concerned with what Penn State is doing to prepare for the expected enrollment explosion in the 'sixties. Views of the construction program and commentary by President Walker and vice-presidents A. E. Diem and McKay Donkin are included on the film.

Senate Minutes

Minutes of the Meeting of

January 7, 1960

The University Senate met at 4:15 p.m. on Thursday, January 7, 1960 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the December 3, 1959 meeting were approved as printed in the Faculty Bulletin for December 11, 1959. One hundred ninety-one senators signed the roll.

Communications from

University Officers

Letters naming substitutes were received from senators unable to be present and naming substitutes. The substitute is designated in parenthesis following the name of the senator: G. W. Brindley (W. O. Williamson), A. W. Hutchison (R. P. Seward), E. T. McDonald (Margaret Raabe), W. H. Powers (L. A. Legory), F. W. Peikert (H. D. Barlett), H. E. Goodwin (M. D. Froke), W. H. Wilson (G. E. Steyers), E. L. Keller (T. S. Goas), R. C. Miller (J. H. Ziegler), J. C. Johnson (V. M. Albers), E. B. McCoy (G. W. Harvey), C. W. Stoddart, Jr. (A. R. Gray), and E. R. Queer (E. R. McLaughlin).

Excerpts from the minutes of the meeting of the Board of Trustees on December 4, 1959 were read as follows:

1. Change the Major in Kindergarten Education and Elementary Education to—Curriculum in Elementary and Kindergarten Education.

2. Change the Major in Secondary Education to—Curriculum in Secondary Education.

3. Transfer the Major in Business Education to the Curriculum in Secondary Education.

4. Change the Major in Rehabilitation Education to—Curriculum in Rehabilitation Education.

Reports of Standing Committees

W. G. Mather, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "A" and the supplementary report which had been distributed at the door prior to the meeting. The supplement contained amendments to items listed as numbers 218-237. After an explanation of these amendments, the purpose of which being to establish one curriculum in the College of Home Economics with five majors and options under them, effective September 1, 1960 beginning with the freshman year progressively. Mr. Mather moved adoption of that part of the report dealing with curriculums, items numbered 217-237, as amended. The motion was seconded. O. R. MacKenzie moved that the title of the major listed as #225 be changed to—Major in Home Economics in Commercial Consumer Services. The motion was seconded and passed. President Walker stated that he was not clear as to the difference between curriculum or major or option. L. E. Dennis stated that the Council of Academic Deans had felt the need for a definition for these terms and that a committee had been appointed to study the matter and will probably report sometime in the spring. This report if adopted, will be brought to the attention of the Senate. There is not now a University definition of these terms. The motion on the curriculum section of the report, as amended, was adopted.

Mr. Mather moved adoption of the course section of the report, items numbered 238-269 with amendments to items numbered 253 and 264 as presented in the supplementary report. The motion was seconded and passed. Mr. Mather then moved adoption of the changes in items numbered 216, 219, 221, and 224 which were listed in the report distributed with the agenda on December 22. The motion was seconded and passed. The complete report, as amended, is on file in the office of the secretary.

R. E. Larson, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, withdrew the report on "800" courses which had been distributed with the agenda as Appendix "B" for further study by the Committee.

Mr. Larson presented the report which had been distributed with the agenda as Appendix "C" regarding "Grades for Courses in Required Physical Education" which had been referred to the Committee by Senate action on November 5, 1959. He stated that this report required no action by the Senate since it was a statement of agreement with the present policy that credit and grades be given for all courses adopted by the University Senate in its approved general education program, including required courses in physical education. The report is as follows:

Grades for Courses in Required Physical Education

The Educational Policy Committee wishes to report agreement with the present policy that credit and grades be given for all courses adopted by the University Senate in its ap-

proved general education program, including required courses in Physical Education.

Courses in physical education have been evaluated by the Courses of Study Committee and approved by the Senate as meeting requirements of an undergraduate program for the baccalaureate degree. Grades in physical education are based on performance criteria and not solely on attendance. The Committee submits that the evaluation of performance in a required physical education class provides essential information about the abilities of the student.

It is also suggested that students may lack motivation to excel in or to take seriously a course which does not grade according to attainment.

The Committee respectfully suggests that questions concerning course content are matters for consideration between the respective College and the Courses of Study Committee.

He then presented the report which had been distributed with the agenda as Appendix "D" as an index to the report of the Subcommittee on Improvement of Instruction for information. The report is on file in the office of the secretary.

J. M. Anderson, Chairman of the SENATE COMMITTEE ON RULES, presented the report which had been distributed with the agenda as Appendix "E," in three sections. He moved adoption of Section A to delete Rules H-11 through H-15 of the Regulations for Undergraduate Students and of Section B to add Rules H-21 through H-26. The motion was seconded and passed. Rules H-21 through H-26 are as follows:

H-21. A student's semester classification is based upon the number of full time semesters of attendance at the University, except in the case of a change of curriculum or of an advanced standing student.

H-22. A student who changes his curriculum shall be assigned a semester classification by the Dean of his College when the change of curriculum is made. In the case of a change of curriculum to the Division of Counseling the semester classification is assigned by the Director.

H-23. A student admitted with advanced standing shall initially be assigned a semester classification by the Dean of Admissions.

H-24. If the evaluation of the record of a graduate of an approved college places him in one of the first four semesters of another undergraduate curriculum he shall be admitted to this institution as a candidate for a bachelor's degree with fifth semester standing.

H-25. A student who has accelerated may have his semester classification advanced by the Dean of his College.

H-26. A student permitted to take less than a full time schedule shall have his semester classification determined by the Dean of his College.

He then moved adoption of Section C. The motion was seconded. This section contained the following addition to the "X" Rules:

X-9. A student shall not represent the University in any athletic contest if he is deficient by more than 10 credits of the total curricular requirements at the end of the preceding semester.

K. R. Smith moved that this new rule be referred to the Senate Committee on Athletics for study. The motion was seconded and passed.

Mr. Anderson asked that the report which had been presented at the last meeting regarding the structure of the Senate Committee on Student Affairs be removed from the table and moved its adoption. The motion was seconded and passed unanimously. Article II, Section 1(n) of the By-Laws, second paragraph now reads:

The Committee on Student Affairs shall have the following subcommittees:

1. Academic Honesty, no change
2. Organization Control, no change
3. To be eliminated
4. Discipline, changed as follows:

A. Voting Members, the Chairman to be the Chairman of the Committee on Student Affairs; the dean of the College, or his representative, in which the student is enrolled; the President, of WSGA and/or SGA, depending on the sex of the student(s); and a faculty or staff specialist on behavior, as designated by the Committee on Student Affairs.

B. Advisory, Nonvoting Members, faculty representative as designated by the Dean of Men or Dean of Women after consultation with the student whose case is under consideration; Dean of Men and/or Dean of Women, depending on the sex of the student(s); and Chairman of the court of original jurisdiction, providing the case has been heard previously in a student court.

5. To be eliminated
6. To be eliminated
7. Academic Discipline, no change

8. Others, no change
No change in the final paragraph as printed on page 12 of the Constitution and By-Laws, 1959-1960.

The report is on file in the office of the secretary.

Mr. Anderson asked that the recommendation to change Article I, Section 1 of the Constitution, as presented at the December 3, 1959 meeting of the Senate, be removed from the table. He presented a supplementary report which had been distributed at the meeting listing three plans for modifying Article I, Section 1 as follows:

Plan A—Addition of Section 3 to Article I

Section 3. Privileges of Members

1. All members shall have the privilege of the floor and shall be eligible for membership on committees.

2. The following members have the privilege of voting.

a. the elected members

b. the heads of academic departments and divisions

c. the dean of each of the colleges and the graduate school

d. the vice president for academic affairs

e. the president of the university

3. The general faculty may attend any meeting of the Senate, not as members, but as visitors.

The effect of the proposed changes would be to reduce the number of voting members of the Senate by about 41. Total membership in the Senate at present is 246, of whom 120 are elected members. The proposed changes also ensure that the number of voting members will not increase in the future except by the creation of departments, divisions and Colleges.

Plan B—Addition of Section 3 to Article I

Section 3. Privileges of Members

1. All members shall have the privilege of the floor and shall be eligible for membership on committees.

2. The following members have the privilege of voting: Those who were members as of January 1, 1960.

3. The general faculty may attend any meeting of the Senate, not as members, but as visitors.

Plan C—Article I—Membership

Section 1—to be changed as follows:

The Senate shall consist of: (1) The President of the University; (2) 100 elected members. These members shall be elected by the Faculty of the various colleges of the University to give proportionate representation of the Faculty to each College on the Senate. (3) The following non-voting members: (same as listed in Article I Section 1).

Mr. Anderson moved adoption of Plan C. The motion was seconded. Since this is new legislation the motion will lie on the table until the next meeting. The complete report is on file in the office of the secretary.

Mr. Anderson stated that the Rules Committee feels that, in terms of the present Senate that Article I, Section 1 of the Constitution should be amended to include the Coordinator of the Commonwealth Campuses, the Directors of the Commonwealth Campuses, and the Director of the Mont Alto Branch. He moved adoption of this amendment. The motion was seconded. R. G. Winter moved to substitute the following resolution for the motion:

The development of the Commonwealth Campuses is of great significance to the future of the University. It is, therefore, proper that the Directors of these campuses be aware of the activities of the Senate, and that these directors be able to bring their views before the Senate. Until such time as the Senate reorganization is completed, we urge the President to invite these directors to attend Senate meetings and to grant them the privilege of the floor through a liberal interpretation of Article V, Section 5 of the Senate By-Laws.

The motion was seconded. After considerable discussion the motion on the resolution was defeated. The original motion was passed by a two-thirds vote. Article I, Section 1 of the Constitution now reads:

The following shall be members of the University Senate: The President of the University; the Vice-Presidents of the University; the Controller; the Director of Continuing Education; the Special Assistant to the President for Student Affairs; the Coordinator of the Commonwealth Campuses, the Deans of the several Colleges and the Graduate School; the Dean of Men; the Dean of Women; the Director of the University Health Center; the Librarian; the Dean of Admissions and Registrar (Secretary); the Dean of Summer Sessions; the Director of the Division of Counseling; the Directors of the Commonwealth Campuses and of the Mont Alto Branch; the Associate and Assistant Deans, the Directors of Research and of Continuing Education in each of the Colleges; the Associate and Assistant Deans of the Graduate School; the Heads of Schools, Divisions, and Departments of Resident Education; and twelve (12) representatives elected by ballot by each College and the Graduate School for a period of three

years, four (4) being elected each year. In case the head of a department is also the Dean of the College, that department shall have a representative in addition to the dean.

R. G. Stoner, Chairman of the SENATE COMMITTEE ON ADMISSIONS, presented the report which had been distributed with the agenda as Appendix "F" and moved its adoption. The motion was seconded and passed. The report is as follows:

The Senate Committee on Admissions recommends for approval for the academic year 1930-31 the following revised minimum entrance requirements for students to be admitted with baccalaureate degree candidates in the College of Chemistry and Physics:

English	3
Algebra	1½
Plane Geometry	1
Trigonometry	½
History	1
Science	1
Foreign Language	7
Other Subjects	7
	15

J. F. Bradley, Chairman of the SENATE COMMITTEE ON SCHOLARSHIPS AND AWARDS, presented the list of recipients of scholarships as distributed at the meeting and moved approval by the Senate. The motion was seconded and passed. The list which had the approval of President Walker is as follows:

Louise Carnegie Scholarships (\$100)

Kerlin, Royer Lee, PHYS; Ripsom, George Anthony, EE; Hatton, Webster Lincoln, BA; Pyle, Winifred Alice, HEED; Angelotti, Ruth Ellen, SECED; Herron, Judith Ann, HEC; Burnesky, John Edward, AL; Hartman, Marshall Lee, BA; Wilson, Ruth Anne, AL; Miller, Franklin John, PM; Reiter, Richard Raymond, HORT.

Class of 1921 Scholarships (\$200)

Prokopowicz, Lorraine Mary, PHYS; Bongiorno, Bernice Elaine, AL; Dienl, Samuel Alexander, EE; Hutchison, Boyd Allan, FOR.

General Scholarships

Wagner, Lamar Elmer, EE; \$400; Baker, Dorothy, CHEM, \$400; Evans, Bonnie Jane, SECED, \$400; Grasier, Roger Willard, E MCH, \$200; Hurst, Joyce Elaine, SECED, \$100.

1920 Class Scholarships (\$100)

Snyder, Nola Judy, JOURN; Elnicki, Richard Anthony, BA; McCown, Robert LeRoy, AGRO; Wilson, Carlton James, AROE; Harmon, Linda Louise, HEC; Blakeslee, Carol Lynn, JOURN; Abrams, Edward, PM.

Class of 1922

Memorial Scholarships (\$100)

Alexander, Duane Frederick, PM; Barten, Carolyn Ortha, CHEM; Allison, Sheila Joan, PHED; Reinhard, Ronald James, PM; Dyer, Patricia Jane, AL; Crouse, Parker Eugene, ESC; Jones, Robert Abram, SECED; Heilman, John Jacob Jr., EE; Hegmann, John Jesse, CE; Moore, Margaret Anne, HEC; Bernhard, Evelyn Esther, SECED.

Alcoa Award (\$625)

Thompson, William Horn, CHE.

Chimes Award (\$75)

Yunk, Barbara Dolores, JOURN.

Mary Thompson Dale

Memorial Scholarship (\$100)

Neuberger, Eve Leah, AL.

Vance C. McCormick Scholarship (\$150)

Tanner, Donald Wayne, CHEM.

Lawrence J. Ostermayer

Memorial Scholarship (\$100)

Formoso, Carl Joseph, CHE; Savits, Thomas Harland, EE; Zdarko, Richard Wilbur, PHYS; Hunt, Clifford Eugene, CHE; Hall, Sallie Jean, AL; Fullerton, Donna Jeanne, HEC; Kressly, Arthur Earl, AROE; Peck, Geneva Gage, AL; Kinsinger, Gay Diane, AL; Larsen, Martha Alice, HEC; Smith, Donald Elwood, PHYS; Currie, Glenn Edgar, PNGE; King, Franklin George, CHE; Abplanalp, Paul LeRoy, PM; Cheplick, Peter George, CHE; Norman, Alfred William, DSC; Holman, Emmett Lou, PHYS.

Garner-Rothrock

Memorial Scholarship (\$150)

Kardos, John L, CHE.

Alpha Phi Omega Scholarship (\$200)

Bradley, Martin Robert, SECED.

School Administrator's

Scholarships (\$250)

Wanner, Janice Helen, HEC; Shupak, Arlene Ruth, AL; Braide, Carol Ann, HEC; Jones, Paul Ronald, CHEM; Tschopp, Larry Leroy, ESC; DeAngelis, Diana Ruth, PM; Hutton, Maurice Frank, ESC; Moorhead, Marjorie Jean, ELED.

Li. Harry Edward Wagner Scholarships (\$100)

Criley, Richard Alan, HORT; Schwartz, Robert Ira, CHE; Firestone, Marvin H., PM; Denlinger, Edgar Jacob, ESC; Hickok, Kenneth Hunsberger, FOR.

Helen Wood Morris

Scholarships (\$52.50)

Steiner, Linda Frances, AL; Bonser, Richard Harlan, ESC.

John W. White Scholarships

Barber, Vern D., ESC, \$200; Cope, Carolyn Joan, SECED, \$150; Lightner, Jeffrey Kass, PM, \$100.

Ethyl and Bayard Kunkle

Scholarships (\$250)

Hagan, Patricia Marie, CHEM; Puhalla, John Edward, BPP; Yeager, Dorothy Ellen, HEC; Nearhoof, Linda Kay, ELED; Sleight, William, BA; Koot, Ronald, BA.

Espy Scholarship (\$150)

Snare, Ronald Carl, EE.

Class of 1941 Scholarships (\$125)

Riccadonna, Alice A., MEDT; Howard, Robert Seeley, PHYS.

A. D. Brickman, Chairman of the SENATE COMMITTEE ON ACADEMIC STANDARDS, presented the informational report with reference to Regulation P-12 which had been distributed at the meeting. The report is as follows:

During the time the current Senate Regulation P-12 for unsatisfactory scholarship has been in effect, the Committee on Academic Standards has received requests to extend the rules to cover not only even-semester (2nd, 4th, 6th, 8th) students but odd-semester students as well.

Any extension of rule P-12 in this direction involves both academic and practical considerations since the great majority of drop actions against odd-semester students would necessarily occur at the middle of the academic year. In weighing this matter the Committee has found that quite aside from any improved standards that might be realized, the suggested extension is impractical at this time because of the short time between semesters.

For example the current academic calendar allows only two week days between the end of the examination period and the start of registration. It is evident that this period is insufficient for the completion and submission of grades, processing of grade slips for all students, and notification of students subject to P-rule action. Thus time does not permit a satisfactory odd-semester drop procedure for use on an all-University basis. Even the small number of irregular students (those who complete even-numbered semesters in January) affected by mid-year drop actions under the existing P-rule pose a difficult problem of timing for the registrar's staff.

If changes in the calendar or grade processing methods allow more mid-year time in the future the Committee will give further consideration to extension of rule P-12.

There was some discussion on this report but no action.

New Business

Joseph Jordan moved that the motion made by R. G. Stoner at the November 5, 1959 meeting of the Senate, regarding credit for required courses in physical education, be reintroduced. The motion follows:

Credit shall be given for required courses in physical education but grade points shall not be assigned. Credit shall be assigned either as passed or failed.

Mr. Jordan stated his reasons for supporting this motion and moved that it be adopted. The motion was seconded. Ben Euwema moved that the motion be amended to include the words "and chemistry" after the words "physical education." The motion was seconded and passed. The motion to adopt the recommendation as amended was defeated.

The next regular meeting of the Senate will be on Thursday, February 11, 1960, in Room 121 Sparks Building. The agenda will be distributed on January 28, 1960.

The meeting adjourned at 5:17 p.m.

Robert G. Bernreuter
Secretary

CRX fee increased

A reminder from R. M. Koser, associate registrar, points out that the fee for credit by examination was increased from \$1 to \$5 per credit by action of the Board of Trustees, effective Sept. 28, 1959.

Home Ec changes made

The curriculum in Home Economics, revised after a study of several years and approved by the University Senate, will include five major fields: family life educational services, home economics in commercial consumer services, home economics in technical services, food services and housing administration, and family studies.

Effective in the fall semester, the new curriculum includes a freshman year of subjects in the physical sciences, English, psychology, sociology, humanities, and arts, with two basic courses in areas of home economics.

The curriculum revision, explains Dr. Grace M. Henderson, dean of the College of Home Economics, will provide students with a higher degree of professional competence than was possible under the previous courses of study. It will also prepare students for additional career opportunities.

Books purchased

Two interesting items have been purchased by the Pattee Library at an auction in Philadelphia for addition to the Rare Book Collection.

They are Walt Whitman's "Leaves of Grass," an 1876 edition autographed by Whitman; the other is an edition of "Charters and Acts of the Assembly of the Province of Pennsylvania," published in 1762.

The edition of Whitman's poetry was called the "author's edition" and the autograph is clear and well preserved on the title page.

Alumnus Herbert Rader, of Philadelphia, informed Ralph W. McComb, University librarian, of the auction at which books from the estates of Stephen Nagy and Douglas Steward were sold.

Law exam applications

Application forms and detailed information concerning law placement examinations, required as one of the conditions for admission to most of the leading schools of law, are available at the office of the department of political science, Room 129 Sparks. The examination will be given on campus Feb. 20, applications for which must reach Educational Testing Service, Princeton, N.J., by tomorrow (Saturday).

Chess team unbeaten

The Penn State Chess team remained undefeated in seven intercollegiate matches with a 4-1 victory over Princeton last weekend. Columbia University managed a draw with the team but Pitt, Carnegie Tech, Georgetown, C.C.-N.Y., and Army, in addition to Princeton, have been defeated.

Calendar

Saturday, Jan. 23

Varsity basketball, versus Pittsburgh, and varsity wrestling, versus Cornell, Recreation Building, 7 p.m. Freshman wrestling, versus Cornell, 2 p.m.

Sunday, Jan. 24

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Rev. Richard Nutt, Methodist chaplain to the University.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. The Rev. Preston N. Williams, acting University chaplain.

Organ recital by George E. Ceiga, associate professor of music and University organist, 4 p.m., Schwab Auditorium.

Friday, Jan. 29

Fall semester ends, 9:50 p.m.

Next Month

Feb. 2—Basketball, vs. Bucknell

Feb. 6—Gymnastics, vs. Navy;

Feb. 13—Wrestling, vs. Navy;

Feb. 14—Artists Series presentation by

Chicago Opera Ballet

Feb. 17—Graduate Lecture Series, Del Ober-

teuffer, Ohio State.

Feb. 21—Student Music Recital.

Feb. 22—Lecture by Hugo Weisgall on

"Drama and Opera."

Feb. 23—Artists Series presentation by the

Netherlands Chamber Choir.

Brotherhood banquet

Dr. John J. Kane, head of the department of sociology at the University of Notre Dame, will give the principal address at the annual Brotherhood Banquet on Wednesday, Feb. 24.

The banquet will be held in the HUB Ballroom at 6 p.m.

R.O.T.C. exemption

Faculty members and students were reminded by Joseph G. Rayback, as chairman of the Senate Committee on Military Instruction, that students classified as 4-F by their draft boards are not automatically exempt from R.O.T.C. requirements in their curriculum.

Only the University Health Service can grant exemptions from R.O.T.C. for medical reasons, Rayback says.



George E. Ceiga

Ceiga concert

A varied program of organ music will be presented in a concert by George E. Ceiga, University organist, on Sunday, Jan. 24 at 4 p.m. in Schwab Auditorium.

Thomas Arne's "Sonata in B-flat Major" will open the program, and will be followed by "Introduction and Toccata" by William Walond.

Two numbers by Bach — "The Old Year hath passed away" and Prelude and Fugue in G Major — will precede two by Cesar Franck, "Cantabile" and "Piece Heroique."

Ceiga's own composition, "Mirage" will be followed by the concluding selection, "Pageant" by Sowerby.

New employment head

John A. Yeatman, a 1955 graduate of the University, has been named head of the Student Employment Service, succeeding Mrs. Virginia Gordon.

Personnel matters

Dr. Donald S. Pearson, associate professor of electrical engineering, will be on leave of absence from Feb. 1 to July 31 to conduct research, complete some writing, and visit universities and industries in connection with his book, "Creativeness for Engineers," now in its third edition.

Dr. Wayne A. Lee, professor of marketing, has resigned, effective Feb. 15, to accept a position as head of the Distribution Research Division of the Market Research Corporation of America.

Alan M. Jacobs, research associate in the College of Engineering and Architecture, will be on a year's leave of absence starting next semester to study for his doctor of philosophy degree here. He has been granted a fellowship from the National Science Foundation and plans to conduct research in the field of neutron transport theory.

Fellowships increased

Five additional fellowships have been authorized for Penn State under the terms of the National Defense Education Act.

The fellowships are in philosophy and in political science and government, and their purpose is to aid graduate students who are interested in preparing themselves to teach in colleges and universities.

The fellowship is normally for three years, providing \$2,000 for the first year, \$2,200 for the second, and \$2,400 for the third, plus an additional allowance of \$400 for each dependent. Penn State gives a grant-in-aid to cover tuition.

Applications for the fellowships must be filed with the Dean of the Graduate School, Willard Building, before Feb. 23.

faculty BULLETIN

Vol. 47, No. 17

Jan. 22, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Arthur F. Davis,
229 Rec Hall,

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

New reactor research

The University has agreed to become a participating member of the Saxton Nuclear Experimental Corporation, a non-profit corporation organized to serve as the instrumentality through which research and experiments at the proposed Saxton, Pa., nuclear reactor will be conducted.

President Walker explained that the University will have no financial investment in the project and will be free to withdraw at any time.

The Corporation has been formed by General Public Utilities System, made up of the Jersey Central Power and Light Co., New Jersey Power and Light Co., Pennsylvania Electric Co., and Metropolitan Edison Co.

The University's participation is viewed as an excellent opportunity to contribute significantly to nuclear research. The reactor is not planned as an economic producer of steam for electric power but as a facility for research and development only.

A 20,000-thermal kilowatt pressurized water nuclear reactor will be built at Saxton, in Bedford County. Construction and installation of the reactor are expected to take about 2½ years.

European flights

The attention of the faculty is called to the "1960 Thrift Tour of Europe" being organized by the Student Government Association under which round-trip flights to Europe are being organized to cost \$285 each. Other features of the plan will be explained in detail if request for information is sent to the Student Government Association, 203A Hetzel Union Building.

News in brief

Death benefits

A recent act of the Pennsylvania Legislature authorizes an additional death benefit to beneficiaries of many University employees who are members of the State Employees' Retirement System.

The new legislation became effective December 1, 1959. It provides that the beneficiaries of deceased employees, who had 10 or more years of membership in the State Employees' Retirement System, will receive a larger settlement than they would have had previously.

Prior to December 1, 1959, a retirement settlement to a beneficiary which included a state share in addition to the deceased employee's contributions and accrued interest was limited to employees who, at death, were eligible for retirement (25 years of membership in the retirement system or age 60).

The new law adds a state share to the deceased employee's contributions and interest now after 10 years of service. This additional amount will vary in individual cases. However, the sum, in most cases, will be a considerable one, depending on the total length of service and age of the deceased employee.

Many members of the faculty and staff now have 10 or more years of membership in the State Employees' Retirement System and, therefore, are now affected by this legislation.

No action is needed by employees to be certain that, in the event of death, the total amount due to their beneficiary will be paid.

Gagarin honored

Gagargin Hall, a riding facility, has been dedicated at Grier School, Tyrone, in honor of Capt. Gregory A. Gagarin, assistant professor of physical education.

The dedication was held this week at the school, which is a school for girls of high school age. Gagarin taught there from 1940 to 1946 before joining the University staff. At the dedication, 100 of the 180 girls enrolled at the school staged a show for the visitors.

Gen. Benjamin Jones, secretary of the Board of Trustees of Grier School, pointed out that increased interest in riding among the girls prompted the board to build the riding hall.

Now third highest

Penn State's tuition is now third highest among 68 Land Grant colleges and universities.

Center grows

Enrolling 1974 participants in 36 different communities, some 126 study-discussion groups in the arts, social sciences and humanities have been developed in the past 18 months by the Center for Continuing Liberal Education, director Dr. Cyril F. Hager reports.

The Center came into being in December, 1957, when the Board of Trustees accepted a grant of \$298,000 from the Fund for Adult Education to establish a five-year program in liberal education for adults. Offices were officially opened on July 1, 1958.

The basis for the group discussions are course materials in 16 different subjects specifically designed for informal adult study. Capable leaders are found in the local community and weekend training institutes have been conducted for 580 discussion leaders in the past 18 months. Coordinators of the programs are often community leaders also.

A second program developed by the Center is the Alumni College. Three sessions have been held to date at University Park and sessions will begin in the fall in politics and the arts at other locales. Alumni clubs have in many cases appointed educational chairmen and a number of study-discussion groups have been developed. Special orientation and training sessions have been held for the alumni and the Council of the Alumni Association.

Alarm tests next week

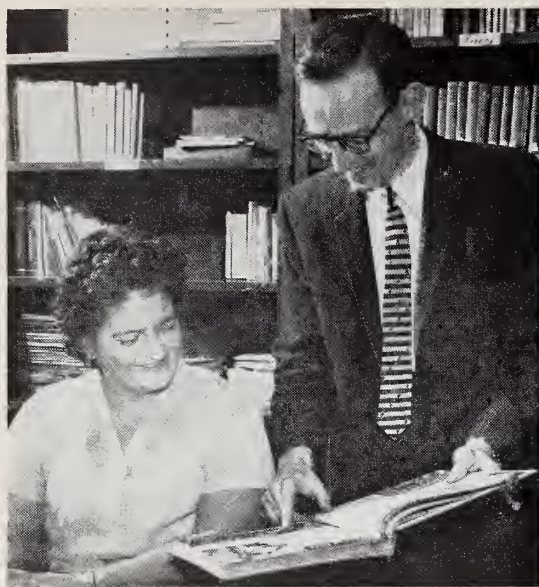
Tests of the fire alarm systems in 50 academic buildings and residence halls will be made next week.

On Monday, Feb. 1 and Tuesday, Feb. 2, from 8:15 a.m. to approximately 4 p.m., the tests will be carried out by the staff of the department of security.

No physical actions are required of occupants of the buildings. The tests are, however, designed to familiarize persons with the sound of the alarm in the building, as well as to check the mechanical condition of the alarms.

Foreign visitors

As noted in a previous issue, foreign visitors to the campus are asked to register with the Office of International Student Affairs or the chairman of the Committee on International Understanding, to facilitate the delivery of mail, cables, and other information. The offices of the several deans now have informational cards which may be used for this purpose, and the use of the cards is urged as a convenience to all concerned.



Learning about American educational methods in a year-long program are 23 administrators from eight Latin American countries. Mrs. Rebeca de Baca, of Peru, with program director Richard R. Renner is at left. At right, Jeannette Veatch, associate professor of education, lectures to the class, with Renner as interpreter.

Latin American education project

MRS. Rebeca de Baca is the director of the Normal School of Chiclayo, Peru, and her experience in teaching and educational administration spans a 25-year period.

In her country, education is taking on a new and hopeful meaning, but for the present, at least, many youngsters will leave school after only a few years to add their labor to that of the family. Making those few years count heavily is one of the concerns of educators like Mrs. Baca.

And so this year, Mrs. Baca, who understands very little English, has elected to come to a strange country where only a few people are truly interested in her welfare and her ambition, to study and see and hear for herself about the educational system in the United States.

Along with 22 other teachers and administrators from Ecuador, Nicaragua, Paraguay, Honduras, Costa Rica, the Dominican Republic, Colombia, and Guatemala, Mrs. Baca is a participant

in the "Latin American Education Project" and like the others is hungry for as much learning and as many experiences as she can jam into a year in this country.

Some of the experiences will take place at 103 E. Beaver Ave., where the classrooms and offices of the Project are located on the second floor, above the drugstore. Others will take place in the classrooms on campus, or in the HUB, Schwab Auditorium, or at meetings of campus and town groups. She has already visited some grade school classrooms in State College, Pine Glen, Wingate, and Howard, and she will visit more, including the proud new jointure and the backward one-room school-house.

In spite of her language difficulty, which is gradually being overcome in the ten-hour-per-week English program, Mrs. Baca is anxiously plunging into community life, wherever she is invited, to learn how we live and think, and to contribute in her way to our un-

derstanding of Peru and the Latin American way of life. She wishes she could do more.

But the Latin American Education Project keeps Mrs. Baca busy, with lectures, interviews, reports, English lessons, tests and examinations, library work, and personal contacts, in as varied and intense a year-long program as director Richard R. Renner can develop.

This is the fourth year of the project, which Joseph V. Alessandro, assistant professor of elementary education, directed in the formative years. Renner is understandably enthusiastic about the program which he describes as "dollar for dollar one of the best programs in international goodwill this country has."

Renner visited many Latin American countries last summer to learn more about the educational problems and what this project could do to help, but the phase of the trip which impressed him most were the interviews with "alumni" of the project.

"They couldn't say enough about the value to them of the year they spent here," Renner says, "personally as well as professionally. They are obviously good spokesmen for the United States in their areas of influence."

The International Cooperation Administration, an agency of the Point Four Program, set up the project because it was recognized that many able and influential Latin American educators could not take regular programs in education at our colleges and universities because they could not speak English and had neither the time nor opportunity to learn it.

"Although the participants are



English instruction is provided by Phyllis Yoho, here in a private session with Bolivar Ferdinand, inspector of primary education, Santiago, Dominican Republic.

learning English," Renner explains, "the lectures and discussions are in Spanish. A few of our instructors know Spanish but generally we work through interpreters."

The faculty for the current year includes Dr. Charles M. Long, Rose Cologne, Honesta Guiang, Jeannette Veatch, William Noyes, Gerald Bosch, Herman Kranzer, Alessandro, and Phyllis Yoho, who is coordinator of English instruction.

These and other people lecture on such subjects as educational organization, philosophy, supervision and curriculum, language arts, arithmetic, social sciences, general science, art, music, and many others, to present a complete picture of the American education system.

Also scheduled frequently are group discussions where the practical problems of adapting the U. S. systems to local conditions are argued back and forth. Some will be required to give Library reports and others to speak on recent experiences. Every opportunity is taken to get the participants into the middle of the activity, rather than acting as a bystander, by lecturing, reporting, discussing, or doing committee work.

"One of the principal differences between our educational system and those of Latin American countries," says Renner, "is the personal development of the student, which is almost unheard of there. The 'democracy' of our classes is very revealing to these educators.

"So by involving those in the Project in as many classroom situations as we can, we hope to impress on them the value of this phase of education."

In a very real, if secondary, way the Project is a program of education in democracy for the participants, many of whom are amazed at the individual responsibility shown by the average citizen in community and national affairs.

"We encourage these people to see us in our activities—at meetings of Borough Council, School Boards, PTA, Boy Scouts, church groups, or in our private homes. They often contribute to the meetings if they are asked to.

"They have given talks to adult education groups, education classes, to elementary school children, to Rotary and other clubs."

In their own communities, these educators worry mostly about the crowded classrooms, poor textbooks, and an insufficiency of even these, "impractical" education, and teachers who have had little training in education.

"So often," Renner says, "the teacher must go along with a government-

(Continued on page four)



Dr. Louis M. Hacker, distinguished visiting professor of history the past semester, with Wallace F. Workmaster, curator of the Pennsylvania Historical Collections at Pattee Library, discussing some of the materials in the Collection.

Historical collections a service

Dr. Louis M. Hacker, who was distinguished visiting professor of history the past semester, believes that a valuable service is rendered by collections of historical materials such as the Pennsylvania Historical Collections at Pattee Library.

"For example," he says, "manuscripts, letters, diaries, pamphlets, and other materials on the period between 1865 and 1900, the era of the so-called 'robber barons' can serve to remind us of aims that guided these great pioneers. And in this day those aims may help us defeat the Russians on the world stage."

The robber barons, Dr. Hacker points out, were constructive, bold, and imaginative persons who set the American economy in its proper course toward not only the achievement of wealth for the whole community but also the growing diffusion of well-being for larger and large sectors of the American population.

Included in the collections at the library are such materials as letters from Andrew Carnegie, Henry Clay Frick, and Charles M. Schwab, all of the "robber baron" era.

Summer science institute

Initiated in 1954, the Summer Institute for Science and Mathematics Teachers will again be held in 1960, beginning July 5 and continuing through Aug. 12.

The program is designed to provide teachers of science and mathematics with a better knowledge of their subject matter and means of improving their teaching capabilities. Courses in the biological sciences, chemistry, earth sciences, mathematics, and physics will be given.

A grant of \$107,200 from the National Science Foundation will support the program this year. Co-sponsors are the Colleges of Agriculture, Chemistry and Physics, Education, the Liberal Arts, and Mineral Industries.

Continental classroom

The University will again participate in the courses offered by Continental Classroom, network television program of the National Broadcasting Co. The program will be seen each weekday, with nuclear and atomic physics at 6:00 a.m. and modern chemistry at 6:20 a.m.

Calendar

Friday, Jan. 29

Fall semester ends, 9:50 p.m.
Farm, Home and Garden telecast, WFBG-TV, Altoona, 12:30 p.m., and each weekday.

Saturday, Jan. 30

Varsity basketball, 8:30 p.m., versus Carnegie Tech.
Reading Instruction telecast, WFBG-TV, 9:30 a.m., Dr. Lyman C. Hunt, director.

Tuesday, Feb. 2

Varsity basketball, 8:30 p.m., versus Bucknell.

Wednesday, Feb. 3

Spring semester registration begins, concludes at noon, Saturday, Feb. 6.

Next Month

Feb. 6—Gymnastics, vs. Navy; basketball vs. Gettysburg
Feb. 13—Wrestling, vs. Navy; basketball, vs. Rutgers
Feb. 14—Artists Series presentation by Chicago Opera Ballet
Feb. 17—Graduate Lecture Series, Del Obersteuffer, Ohio State.
Feb. 21—Student Music Recital.
Feb. 22—Lecture by Hugo Weisgall on "Drama and Opera."
Feb. 23—Artists Series presentation by the Netherlands Chamber Choir.
Feb. 24—Brotherhood banquet, 6 p.m., HUB
Feb. 25—Basketball, vs. Lehigh, 8 p.m.
Wrestling, vs. Pitt, 8 p.m.
Feb. 27—Gymnastics, vs. Pitt, 2 p.m.
Mar. 3, 4, 5—Players production of "Detective Story," Schwab, 8 p.m.

Latin American—

(Continued from page three)

prepared textbook which has little value to the student.

"Learning facts, which can be memorized and recited mechanically, characterizes education in many countries. Few of the facts are helpful in everyday activities."

These educators do not expect to make radical changes when they return to their jobs at home. For one thing, they are usually responsible to the Ministry of Education, which would have to be convinced of the need for change before a drastically new program could be introduced. And money to make changes is usually unavailable.

"But to a certain degree, the fact their country is footing half the bill for this program is an encouraging sign that the desire for change is present in their governments," Renner points out.

In April or May the educators will spend five weeks in school systems, working closely with superintendents. During the summer they will visit throughout the eastern United States and before returning to their countries will again go into an elementary school for more experience. In these situations, their English program is put to a good test, and is seldom found seriously wanting.

From such contacts, Mrs. Baca will obtain a further insight into life in the United States. Perhaps she won't "Sell America" when she returns to Peru, but she will be in a position to give a much more mature and sound interpretation of this country.

"More important," Renner concludes, "will be the effect she will have on the educational affairs of her area, and through improvement in the educational systems can come tremendous changes in the future of the people."

Items of Interest

• Honors and Awards

H. S. Brunner, emeritus, agricultural education, the recipient of the American Vocational Association distinguished service award for important contributions to the advancement of practical and useful education, in the field of agricultural education.

R. A. Dutcher, emeritus, agricultural and biological chemistry, an honor award and scroll from the Pennsylvania chapter, American Institute of Chemists.

E. M. Elias, York campus director, upgraded to the rank of Member, American Institute of Electrical Engineers.

• Articles and Papers

W. W. Hassler, Jr., history, four articles for the new edition of Encyclopedia Britannica on Generals James Longstreet, A. P. Hill, Henry J. Hunt, and D. H. Hill.

R. N. DeVinney, English (Allentown Center), an article, "The Pennsylvania Survey" in the January issue of College English; the results of a survey of the college English teacher made for the Pennsylvania Council of Teachers of English.

V. V. Aspaturian, political science, a paper on "The Evolution and Organization of the Soviet Diplomatic Service" at the Russian Research Center at Harvard University.

J. L. Brown, Jr., engineering research, an article, "A Property of the Generalized Envelope" in the September issue of Institute of Radio Engineers Transactions on Circuit Theory.

E. J. Nichols, English composition, biographies of Philip Henry Sheridan, Andrew Gregg Curtin, and Henry Winter Davis, for the forthcoming edition of Encyclopedia Britannica.

• Elected or Appointed

Grace M. Henderson, Home Economics, appointed to serve on the Commission on Education of Women, American Council on Education, for three-year term.

• Lectures and Talks

J. A. Panofsky, meteorology, a talk before the joint meeting of the Institute of Aeronautical Sciences and the American Meteorological Society at New York on Jan. 25 on a review of the distribution of wind and temperature in the lower atmospheres.

T. M. Reeves, audio-visual aids, a report on audio-visual aids in Pennsylvania before a sectional meeting of the Pennsylvania State Educational Association in Harrisburg.

L. E. Corter, political science, a talk on "Serving the Public" at a meeting of public officials of Clearfield County at Clearfield on Jan. 25.

M. A. Mook, anthropology, a talk on "The Amish as Our Citizens," in Harrisburg under the co-sponsorship of the Pennsylvania Historical and Museum Commission and the Harrisburg College Center.

Margaret B. Jennings, foods and nutrition, a talk on "Changing Concepts of Family Meals," at a meeting of community workers in nutrition education in Detroit, sponsored by the Dairy Council of Detroit.

• Books

S. W. Fletcher, dean emeritus, Agriculture, "The Philadelphia Society for Promoting Agriculture, 1785-1955."

R. W. Lindsay, metallurgy, editor of the book, "Quality Requirements of Super-Duty Steels," volume three of the Metallurgical Society Conference Series, sponsored by the American Institute of Mining, Metallurgical and Petroleum Engineers.

faculty BULLETIN

Vol. 47, No. 18

Jan. 29, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Mairs, Mrs. T. I.
Cent Library

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

News in Brief

ANNUAL REPORT AVAILABLE

Approximately a third of the University's income for operations during 1958-59 academic year came from the Commonwealth, the annual report of the University reveals.

Other major sources of income for the period included: auxiliary enterprises, 19.5%; the U. S. Government, 18.4%; student fees, 17.4%.

Income totalled \$45,470,956 the report shows, an increase of 6.2% over the previous year. Expenditures also increased by this amount, primarily in the form of salary increases.

A breakdown of current expenditures by major divisions of the University shows that the \$8.9 million budget of the College of Agriculture accounted for more than 37 per cent of the total outlay for instruction and research in the nine Colleges. The College of Engineering and Architecture was second with a budget of \$4.8 million.

Copies of the report are available to faculty members at the Office of the President, 201 Old Main.

SUMMER SESSIONS TO END

Two recommendations of the Committee on Instruction were approved by the Board of Trustees at its meeting in Harrisburg last weekend. They are:

(1) To terminate the separate Summer Sessions office and organization, effective Sept. 30, 1960, with its functions to be decentralized and assumed by the Colleges, the Graduate School, and other offices of the University.

(2) To instruct the officers of the University to prepare, consistent with the best interests of the educational program, an academic calendar designed to make fullest possible use of all of the resources of the institution on a year-round basis, with such a calendar to be submitted to the Committee on Instruction of the Board for its consideration by no later than Oct. 1, 1960.

BLACK ASSOCIATE DIRECTOR

Dr. Alex Black has been named associate director of the Agricultural Experiment Station, effective Feb. 1. He has been assistant director since 1953 and previously was instructor, assistant professor, and professor in animal nutrition, from 1935 to 1953. He served as a nutrition officer in the U. S. Army from 1942 to 1945.

For the past three years he has been a member of the Committee of Three of the Northeastern Experiment Station Directors, for the past year as chairman, to make recommendations for the regional research program in the 12 northeastern states.

BOARD ELECTS

Elected as officers of the Board of Trustees last weekend were the following:

President, James B. Long, of Blue Bell.

Vice-president, Roger W. Rowland, of New Castle.

Secretary, Eric A. Walker.

Treasurer, McKay Donkin

Assistant secretary, C. S. Wyand.

In other action, in keeping with an amendment to the charter which now permits the Board to name from seven to eleven members to its executive committee, named to the committee were Ralph Hetzel, of New York City, and H. Thomas Hallowell, Jr., of Jenkintown.

To succeed Kenzie S. Bagshaw, of Hollidaysburg, deceased, and George W. Slocum, of Milton, State Senator Albert E. Madigan, of Towanda, and J. Lewis Williams, of Uniontown, were named to the committee.

Other members of the executive committee are Mayor Richardson Dilworth, of Philadelphia; Milton Fritsche, Philadelphia; William D. Harkins, Philadelphia; J. L. Mauthe, Youngstown, Ohio; Walter W. Patchell, Philadelphia; Frank W. Ruth, Lykens, and Rowland. Dr. Walker and Mr. Long are ex officio members.

NEW STUDENTS TOTAL 540

Approximately 540 new students, including 207 transferring from Commonwealth Campuses, enrolled at University Park this week and an additional 118 new students enrolled at the other Campuses.

Complete enrollment statistics will be tabulated in a future issue of the Faculty Bulletin.

Among the new students at University Park are 109 freshmen, 73 from other colleges, and 153 re-admitted.

At graduation last Sunday, a total of 716 degrees were granted, including some 150 to candidates who had completed work for their degrees last August. Among the graduates were 471 who earned baccalaureate degrees, 10 associate degrees, and 235 advanced degrees, including 39 doctorates.

AWARD FOR RESEARCH

Drs. John O. Almquist, Robert J. Flipse, and Wayne T. O'Dell, of the Dairy Breeding Research Center, have been honored by the Glycerine Producers' Association for their research in the development of a milk-glycerol diluter for use with bull semen.

A certificate and a \$300 cash award were presented.

New committees

The Board of Trustees has established a new Committee on Endowments and Gifts and replaced the Committee on Extension with two committees: Continuing Education, and Commonwealth Campuses.

Approving a recommendation of its Executive Committee, the Board amended its By-Laws to increase the number of standing committees from seven to nine.

The other committees are Instruction, Research, Student Affairs, Finance and Business, Physical Plant, and Long-Range Development.

Ballet tickets

The Chicago Opera Ballet, featuring Melissa Hayden, will present the next program in the Artists Series, on Sunday, Feb. 14 at 8 p.m. in Recreation Building.

Tickets for the program will go on sale to the general public on Wednesday, Feb. 10 at the HUB desk at 9 a.m.

The ballet is a company of 50, comprising the dancers and an orchestra conducted by Neal Kayan. In addition to Miss Hayden, featured dancers are Kenneth Johnson, Veronika Mlakar, and Barbara Steele.

President to speak

President Eric A. Walker will address the faculty on Wednesday, Feb. 10 at 4:15 p.m. in Schwab Auditorium.

Senate meets Thursday

The University Senate will meet on Thursday, Feb. 11, at 4:15 p.m. in Room 121, Sparks.



On the first of a series of television shows on Sunday, Jan. 17 Drs. Vernon V. Aspaturian, left, Allan L. Rodgers, center, and Neal Riemer discussed "The Soviet Challenge." The next program will be seen Feb. 7 at 5 p.m. on WFBG-TV.

Television series continues Sunday

The second program in the television series titled "The Soviet Challenge" will be seen Sunday, Feb. 7 at 5 p.m. on WFBG-TV, Altoona, Channel 10.

Dr. Kent Forster, professor of European history, and Dr. Sidney A. Bowhill, associate professor of electrical engineering, will join with permanent panelists Dr. Vernon V. Aspaturian, associate professor of political science, and Gilbert E. Aberg, television producer in Public Information, to discuss the topic, "The Military and Science Challenge."

The initial program of the series, which continues bi-weekly until April 17, had Dr. Neal Riemer and Dr. Allan L. Rodgers as guest panelists. The program will be presented next on Feb. 21.

Items of Interest

• Patents

J. D. Weir, engineering research, an electric regulating apparatus, No. 2,196,688. Provides a way to maintain constant load voltage under conditions of varying demand.

• Elected or Appointed

C. W. Rutschky, entomology, elected president, and E. J. Udine, entomology extension, re-elected secretary of the Entomological Society of America.

E. B. Weidhaas, general engineering, nominated advertising manager, Journal of Engineering Graphics, official publication of the Engineering Graphics Division, American Society for Engineering Education.

N. C. Pendered, industrial arts education, named to the Board of Directors of the Industrial Arts Association of Pennsylvania.

M. W. Isenberg, architectural engineering, appointed to a tri-partite committee representing the American Institute of Architects, the Schools of

Architecture, and the architectural Woodwork Institute.

• Lectures and Talks

H. M. Davis, chemical metallurgy, a talk before the Society of Sigma Xi, at Dennison University on the failures of porcelain enamelled steels.

Joseph Jordan, chemistry, talks on "Enthalpy Titrations" at Brooklyn Polytechnic Institute and on "Polarography of Carbon Dioxide" at New York University.

James Tammen, plant pathology, a talk on disease control in carnations, chrysanthemums, geraniums, and poinsettias, at the Ohio Florists' short course in Columbus, Ohio.

J. K. Rathmell, Jr., floriculture extension, reported on new research findings on snapdragons at the New York State Flower Growers Short Course at Ithaca, N.Y.

Joseph Marin, engineering mechanics, an address before the Connecticut Chapter of the American Society of Mechanical Engineers on recent developments in solid state mechanics.

College Area leads

College Area Joint High School graduates outnumber those of any other high school among the 15,000 students currently enrolled at University Park.

Ten schools are represented by a hundred or more graduates, with College Area students numbering 224. Altoona ranks second with 203. Another 150 Altoona students are enrolled at the Altoona campus.

Three Philadelphia schools have sent over a hundred students, as have schools in Allentown, Hazleton, Mt. Lebanon, Lower Merion, and York.

Martha Adams head

Martha A. Adams, assistant professor of physical education and a graduate of William and Mary College, has been named to succeed Marie Haidt, who retired Jan. 30, as head of required health and physical education for women.

Miss Adams joined the Penn State faculty in 1954, after teaching in Orange, N.J., and at the State University of Iowa, where she also obtained her master of arts degree.

Member of Pi Lambda Theta, American Association of Health, Physical Education and Recreation, and the National Association for Physical Education for Women, Miss Adams is the author of several publications.

Translators asked

Faculty and staff members who can make translations from various foreign languages are urged to send their names to the Reference staff of the Pattee Library so that they may be included in a list of such people currently being drawn up.

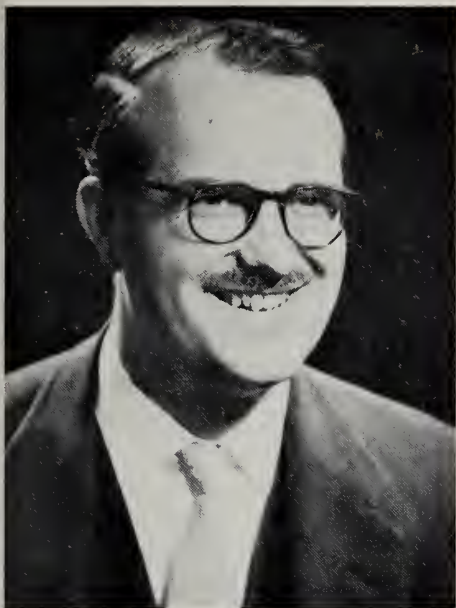
Miss Elizabeth Wescott, in the Reference Department, says that although there have not been many requests for this service, the availability of it has always been appreciated.

Please indicate the language which can be handled and whether a fee would be charged for short translations.

Speakers listed

Two distinguished scientists from abroad have been scheduled to address the members of the Academic Year Science Institute for Teachers this semester. Other interested persons may attend these lectures.

Dr. S. Tolansky, professor of physics, University of London, will speak on Mar. 15 and Dr. Graham Hoyle, of the zoology department, Glasgow University, will speak on Mar. 22. Both lectures will be given at 4 p.m. in Room 100 Weaver.



Chatt on faculty

Dr. Joseph Chatt, of the Akers Research Laboratory of Imperial Chemical Industries, Ltd., in England, will occupy the position of distinguished visiting professor of chemistry from Feb. 1 to June 30.

During his stay here he will be a guest lecturer on the television program, "Continental Classroom" on Mar. 15. He will speak on "Crystal Field Theory."

A graduate of Cambridge University, where he received his doctor's degree also, Dr. Chatt joined the ICI at the then new laboratories named The Fryth. His work there put him in the forefront of the development of modern theoretical inorganic chemistry. He has been in this country previously for lecture tours twice.

Dr. Chatt has been secretary of The Chemical Society (London) and a member of the publications committee of the Society. He is frequently called on as the outside member of doctorate committees at Oxford, Cambridge, University of London, and other universities. He has published 70 papers in professional journals in reporting his research.

Brotherhood banquet

Tickets are now on sale at the office of the Chaplain, Helen Eakin Eisenhower Chapel, and at the HUB desk for the Brotherhood Banquet on Feb. 24.

Dr. John J. Kane, head of the department of sociology at the University of Notre Dame, will speak on "Promoting Harmony in Interreligious Relations." The dinner begins at 6 p.m. and will be held in the HUB ballroom. Tickets are priced at \$2.50, and early purchase is urged.

Items of Interest

• The Arts

S. H. Frost, art, a drawing, "Scare Crow," on exhibit in the 29th annual American Graphic Arts and Drawing Exhibition at Wichita, Kan.

At the 155th annual exhibition of American Painting and Sculpture at the Pennsylvania Academy of Fine Arts, the following art works: G. S. Zoretich's welded sculpture titled "Fugue"; George Pappas's oil painting, "Beach Pavilion"; S. H. Frost, an oil painting "Red Still Life."

• Articles and Papers

J. D. Hovanesian, agricultural engineering, a paper titled, "An Analysis of the Necessity to Insulate Floors of Cold Storage Rooms Sitting on Soil," before the American Society of Heating, Refrigerating, and Air Conditioning Engineers at their annual meeting in Dallas.

E. P. Strong, business administration, a paper on "Modernizing Office Operations" at a meeting of the Insurance Committee of the International Cooperative Alliance.

W. H. Gotolski, civil engineering, a report on the extent and comparative success of existing programs of summer work for faculty members, at the 58th annual meeting of the American Road Builders' Association.

L. H. Harshbarger, chaplain, a book review in the December issue of The Christian Scholar.

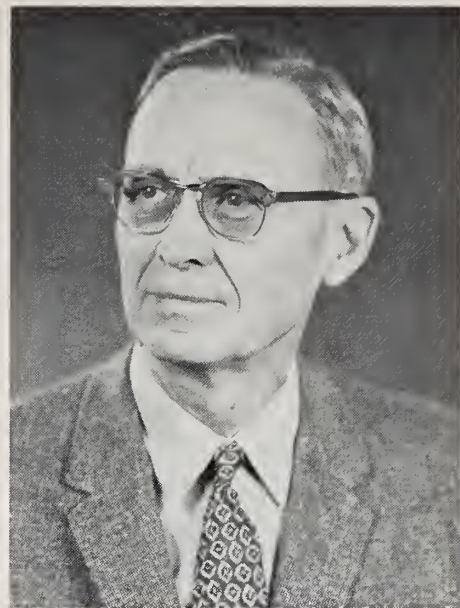
Y. G. Chomicky, art education, an article on water color painting in the current issue of Everyday Art.

L. P. Greenhill, academic research and services, a paper on "Instructional Research—Whence—Whither?" at the 4th Northeast Regional Audio-Visual Conference at Central Connecticut State College.

F. W. Kniffin, marketing, a paper at the annual American Marketing Association meeting in Washington, D.C. on the subject, "Opportunities and Limitations of Business Games."

Rigoberto Juarez-Paz, philosophy, the following articles: "Reasons, Commands, and Moral Principles" in the October issue of Logique et Analyse; "Vlastos Sellars, y 'el tercer hombre' en el Parmenides" in the January-March issue of Revista de Psicología General y Aplicada; and "La estructura de la filosofía de Unamuno" in the February issue of Revista de la Universidad de San Carlos.

E. P. Strong, management, an article giving information on 32 occupations under the heading, "Office Work," in the new "World Book Encyclopedia."



Friese retires

John F. Friese has retired, effective Jan. 31, with the rank of professor emeritus of industrial arts education after 28 years on the faculty.

In 1914, Friese graduated with a diploma from Bradley Polytechnic Institute, Peoria, Ill. He returned to the Institute to complete work for the baccalaureate degree after service in World War I. He obtained the degree in 1925 and four years later was granted a master's degree by the University of Wisconsin.

Friese came to Penn State in 1932 after teaching in the public schools of Idaho and Minnesota, at Stanstead College, Quebec, and at the University of Wisconsin. He had also served as director of Industrial Education, Adult Education and Guidance at St. Cloud and was visiting professor at Minnesota, Iowa, and Utah during summer sessions.

Author of five books and many magazine articles, Friese has also contributed to four yearbooks and to bulletins.

He has received two awards in his career: from the Industrial Arts Conference of the Mississippi Valley in 1948 which elected him "Leader in Industrial Education"; and in 1954 from the American Council on Industrial Arts Teacher Education which selected him as one of 12 "National Leaders in Industrial Arts Teacher Education."

Deike gets post

George H. Deike, member of the Board of Trustees since 1925, has been appointed as regional director of the Association of Governing Boards of State Universities.

President Walker announced the appointment this week.



Wartik chem head

Dr. Thomas Wartik, associate professor of chemistry, has succeeded Dr. W. Conard Fernelius as head of the department of chemistry.

Dr. Fernelius, who headed the department since 1949, asked to be relieved of administrative responsibilities but will continue as professor of chemistry.

A graduate of the University of Cincinnati, Dr. Wartik has been a member of the Penn State faculty since 1950. He received his doctor of philosophy degree, with a major in chemistry, from the University of Chicago.

Dr. Wartik's research in chemistry has been in the boron field and in light metals and the chemistry of hydrides. He is a member of Phi Beta Kappa, Sigma Xi, Omicron Delta Kappa. He was recently elected president of the local chapter of Phi Beta Kappa.

Calendar

Saturday, Feb. 6

Varsity gymnastics, versus Navy, 7 p.m., Rec Hall and varsity basketball, versus Gettysburg, 8:30 p.m.
Registration ends, 12 noon.

Sunday, Feb. 7

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Richard Nutt.
Roman Catholic Mass, 9 a.m., Schwab Auditorium.
Chapel Service, 10:55 a.m., Schwab Auditorium. Rev. Preston N. Williams, acting University chaplain.

Monday, Feb. 8

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Thomas E. Sterling, University patent attorney, on "Patents and the University."

Tuesday, Feb. 9

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. Dr. Lawrence L. Werboff, assistant professor of economics, on "Federal Reserve Act of 1913 Revisited."

Philosophy Colloquium, 4:15 p.m., Room 203 Hetzel Union Building. Dr. Atrian Van Kaam on "Existential Anthropological Psychology."
American Society for Metals Penn State chapter meeting, 7:30 p.m., Mineral Industries Auditorium. Malcolm F. Judkins, Sylvania-Corning Nuclear Corp. on "Ceramics and Ceramics—Their High Temperature and Nuclear Applications."

Wednesday, Feb. 10

President Walker talks to the faculty, 4:15 p.m., Schwab Auditorium.

Thursday, Feb. 11

University Senate meets, 4:15 p.m., Room 121 Sparks.

Friday, Feb. 12

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. L. S. Birks, head, X-ray Optics Branch, U.S. Naval Laboratory, Washington, D.C., on "Application of the Electron Probe Microanalyzer to Metals and Minerals."

Fluid Mechanics Seminar, 4:10 p.m., Room 211 Mechanical Engineering Building. Dr. William C. Criminale, department of aeronautics, Johns Hopkins University, on "Growth of Localized Disturbance in a Laminar Boundary Layer."

Creative engineering

Maurice S. Gjesdahl, professor of mechanical engineering, this week concluded a series of four classes in Creative Engineering for a group of 20 young engineers employed by the Westinghouse Electric Co. in Pittsburgh.

Next Month

Feb. 13—Wrestling, vs. Navy; basketball, vs. Rutgers
Feb. 14—Artists Series presentation by Chicago Opera Ballet
Feb. 17—Graduate Lecture Series, Del Obersteuffer, Ohio State.
Feb. 21—Student Music Recital.
Feb. 22—Lecture by Hugo Weisgall on "Drama and Opera."
Feb. 23—Artists Series presentation by the Netherlands Chamber Choir.
Feb. 24—Brotherhood banquet, 6 p.m., HUB
Feb. 25—Basketball, vs. Lehigh, 8 p.m.
Wrestling, vs. Pitt, 8 p.m.
Feb. 27—Gymnastics, vs. Pitt, 2 p.m.
Mar. 3, 4, 5—Players production of "Detective Story," Schwab, 8 p.m.
Mar. 8—University Lecture Series, 8 p.m., Schwab. Cyril Northcote Parkinson.
Mar. 9—Artists Series, 8:30 p.m., Schwab. Benno Moiseiwitsch, pianist.
Mar. 11—Hugo Weisgall lecture on "20th Century Lyric Theatre," 8 p.m., HUB assembly room.

Television Broadcasts

WFBG-TV, CHANNEL 10

Saturday, Feb. 6—Reading Instruction in the Elementary School, Dr. Lyman C. Hunt, 9-9:30 a.m.
Sunday, Feb. 7—"The Soviet Challenge" with regular panelists Dr. Vernon V. Aspaturian and Gilbert Aberg and guest panelists Drs. Kent Forster and Sidney A. Bowhill, 5-5:30 p.m.
Monday, Feb. 8—Also Wednesday and Friday, course in "Personal Finance," 9-9:50 a.m.
Monday, Feb. 8—Also Wednesday and Friday, news-interview program, "Postscripts," with Marlowe D. Froke, 9:50-10:00 a.m.
Monday, Feb. 8—Also each weekday, the Farm, Home and Garden program, 12:30-1:00 p.m.

Short course enrollment

More than 15,000 men and women have enrolled in agricultural short courses at Penn State during the last 67 years. Since World War II, 23 foreign countries have been represented in these classes.

faculty BULLETIN

Vol. 47, No. 19

Feb. 5, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Penn State Collection,
Pattee Library,

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Herberg speaks Sunday

Dr. Will Herberg, professor of Judaism and social philosophy at Drew University, will speak on "Biblical Faith and Political Understanding" on Sunday, Feb. 14 at 4 p.m. in the Helen Eisenhower Chapel.

This is the first of a series of lectures concerning religion and politics sponsored by the Committee on Inter-religious affairs. Dr. Elton Atwater, Dr. Neal Riemer, the Rev. Fr. Gerald J. Ream, and the Rev. Sam Gibson planned the series.

Home Ec meal schedules

Food services by classes in Hotel and Institution Administration at the Home Economics cafeteria and Maple Room will begin with luncheon on Tuesday, Feb. 16. Cafeteria-style luncheon will be served Tuesday through Friday, 11:50 a.m. to 12:30 p.m.

Dinner, tea room style, will be served on Wednesday and Thursday 5:30-6:30 p.m. Please note that the Tuesday dinner schedule has been discontinued.

Teachers take courses

Two in-service courses for senior and junior high school teachers of science and mathematics began this week, aided by a grant from the National Science Foundation.

The two courses — plant biology and differential equations—are being taught on Tuesday evening. The plant biology course will be taught by Walter F. Westerfeld, instructor in botany. Dr. Henry G. Barone, associate professor of mathematics, will teach the course in differential equations. Approximately 20 teachers are expected in each course.

News in Brief

Pollock road closed

Effective Monday, Feb. 15, through-traffic on Pollock Road will be discontinued as a first step in the University's long range plan to improve vehicular and pedestrian traffic flow on central campus.

Access to present parking areas will be unaffected by the move, which will be accomplished by putting posts in the road just east of Fraser Road and just west of the service road next to Graduate Hall.

In the area between the posts, which is the point of heaviest pedestrian traffic, there are no entrances to parking lots for motor vehicles.

Traffic on Fraser Road, between Thompson Hall and Sparks Building, will remain open northbound, and parking on the west side of the road will continue for the present.

Through-traffic on Pollock Road has been increasing steadily and there are many occasions when pedestrian traffic moves only at great risk because of the number of vehicles using the road.

Shobaken art exhibit

An exhibition of the paintings, drawings, and prints of Bruce Shobaken, instructor in art, is currently being held in the HUB gallery, and will remain until Feb. 24.

Eight large oil paintings, four watercolors, and numerous prints and drawings are included in the exhibit.

Students seek jobs

Students are looking for part-time work, in the library, laboratory, or office, doing drafting, lawn care, housework, or babysitting, or any one of hundreds of jobs.

Faculty members who have need for this kind of help, either on a regular basis or to get a single job done, are urged to call the Student Employment Service, 112 Old Main, UN 5-6371.

Thomas succumbs

Dr. Walter Thomas, professor emeritus of plant nutrition, who retired in 1950, died last week at the age of 79. Internationally known for his work on mineral nutrition of plants, he had joined the staff in 1910.

Graduate lecture series

Dr. Delbert Oberteuffer, professor of physical education at Ohio State, will initiate the spring program of the Graduate Lecture Series on Wednesday, Feb. 17, speaking on "A Biological Basis for Responsibility in Education."

The lecture is co-sponsored by the College of Physical Education and Ath-

letics and will be given at 8 p.m. in Room 121 Sparks.

A graduate of Oregon State University, Dr. Oberteuffer received master of arts and doctor of philosophy degrees from Columbia University. He has taught at Oregon and at Columbia and has been at Ohio State since 1932. His experience includes two years as regional director of physical fitness programs of the Federal Security Agency.

Other speakers in the series will include Gerald W. Johnson, journalist, Baltimore, on Mar. 1; Paul B. Sears, conservationist, Yale, Mar. 30; and Olaf Mickelsen, bio-chemist, National Institute of Arthritis and Metabolic Diseases, on Apr. 21.

Business conference

A three-day conference beginning Feb. 18 will be held to discuss the future direction to be taken by education for business.

Sponsored jointly by the College of Business Administration and the Middle Atlantic Association of Colleges of Business Administration, the conference will be concerned with the evaluation of two recent reports on higher education for business. Attending will be business leaders as well as educators.

The conference is being financed by a grant from the Ford Foundation.

Color slide club meets

The State College Color Slide Club will meet on Monday, Feb. 15 at 7:30 p.m. in the Mineral Industries Auditorium, Room 26 Mineral Sciences. James Canavan will speak and show slides on "Antarctica IGY, 1957-58." George S. Bush, associate professor of journalism, will judge the monthly slide competition.

Five o'clock theatre

An original one-act play, "The Return," by Janet Durstine, senior in Journalism, will be the first production of Five O'clock Theatre this semester, on Feb. 16.

A semester-long program of plays acted, written, and directed by University students, will be given each Tuesday at 5 p.m. in the Little Theatre in the basement of Old Main.

Chicago opera ballet

The next program in the current Artists Series will be given on Sunday, Feb. 14 at 8 p.m. in Recreation Building. Tickets are on sale at the main desk of the Hetzel Union Building.

On Feb. 23, the Netherlands Chamber Choir will present a concert in Schwab Auditorium. Tickets for this presentation will be sold to the public on Feb. 20.

President Walker addresses faculty

The following are excerpts from the address by President Eric A. Walker before the faculty on Wednesday, Feb. 10.

* * *

Now, might I ask you to bear with me as I cite and recite some figures. The basic figures in our long range report were those for the years 1955 and 1970; but let me also cite some figures that were given for the year 1960 and compare our present performance against them; remembering of course, that the figures for 1960 are really the figures that we are to obtain next fall some eight months from now. Therefore, we are really comparing our present performance against what should obtain in the fall of 1960.

In the long range report, it was pointed out that there were 560,000 college youth in Pennsylvania in 1955. This figure will rise to 600,000 by 1960. Then it will rise precipitously to 866,000 by 1970. There isn't any doubt about these figures and there wasn't when the report was written because the children were already born.

The next prediction, logically enough, concerned the number of these young men and young women who will attend college. The actual full-time enrollment in Pennsylvania in 1955 was 115,000 students. And the predicted enrollment for 1970, was 178,000 assuming that the same percentage of students would continue to go to college as went in 1955. This assumption gave us a predicted enrollment of 123,000 students in college in 1960, and this is the figure we can compare with the facts. The actual full-time enrollment in Pennsylvania last fall was about 130,000. Now, this indicates that our prediction, which is one of three low predictions, was too low, and it suggests that instead of 178,000 college students in 1970, we will have about 243,000.

Now how about Penn State? In 1955, we had 15,000 students. We estimated about 32,500 for 1970. The prediction for 1960 is about 19,500. Now unfortunately, in 1960, this fall, we will probably have only about 18,000, which shows that we are running 1,000 to 1,500 students behind schedule.

Why? Because we have not had the money to hire as many new teachers as we need or we would like to have.

Increase by 20%

Let me also point out that the big three Pitt, Penn, and Temple had a full-time equivalent enrollment of 30,000 in 1955; and by 1959 this had grown to only 31,000 which you see is an almost negligible increase, and in this same period Penn State had increased its enrollment by 20%. . . . On the

other hand, our enrollment at the Commonwealth campuses is expected to reach 10,000 by 1970, and it's already running ahead of our expectations. Indeed even now, we're having to tell applicants who have applied for admission to the Ogontz Campus that Ogontz is full, but they may apply for admission to the University Park Campus.

Now drawing the same sort of comparison for research, we find that in 1955 the dollar volume of our sponsored research totalled \$7½ million, and it is expected to reach \$18 million by 1970. The prediction is \$10.9 million by 1960, but we've already exceeded \$11 million.

* * *

Self-amortizing Projects

The first and possibly easily misunderstood of these pocketbooks is the one designated as self-amortizing projects. This pays for income-producing installations like our residence halls. Last autumn we finished the Park Ave. halls, increasing our dormitory capacity to nearly 7,000 students. This summer we'll add Pollock Circle Halls for another 2,100 under-graduates, and apartments for 216 married graduate students. The following year we'll complete the Turf Plot halls to bring our total resident capacity to about 11,000. These residence halls cost \$58 million which was borrowed from the public through a bond issue. This bond issue is supported by an indenture that binds us to pay the interest and to pay off the principal by the year 2000.

All the receipts from our housing operations and food operations beyond those required for the purchase of raw materials and for the payment of salaries and wages for those engaged in this self-amortizing enterprise are committed to the bond holders, but in the year 2000 the University will own the halls and we will have liquidated these obligations.

Thinnest Pocketbook

The pocketbook with which we have the most freedom is also unfortunately the thinnest of the five. This pocketbook contains the money that comes to us as gifts from alumni and friends. Although most of this money is given for very specific purposes, some of it is given for the good of the University, and this can be used at the discretion of the Penn State Foundation and Administration.

Now the last one of all is one that I call the general appropriations pocketbook. This is the one into which we put the tuition and the general state appropriation. It amounted to some \$33 million in 1955, and was supposed to reach \$57 million by 1960, and \$100

million by 1970. Unfortunately this is the one that is furthest behind schedule; and this is why we do not have the funds to raise salaries sufficiently, to add new staff and students and to assume new responsibility.

* * *

Now, how did we arrive at the specific figures of \$44 million? Again I will have to ask you to bear with me while I review briefly the figures that I gave you at our meeting a year ago. As of last summer, we were spending money at the rate of \$83 million for the biennium. Because the University like every household is caught in this inflationary cost spiral, I added approximately 2% or about \$1.5 million to anticipate this source of added cost. This was my first mistake, because I learned later that I had underestimated this cost of the University. Also, because we had become so accustomed to expanding and to adding new services, some commitments were made that could not be cancelled. The demands of these commitments, plus increases in cost over which we have absolutely no control, soon showed me that this 2% is not enough. You will recall also that we asked for \$4 million for additional staff, \$1.8 million for materials, supplies, and the like, to supply the new staff and to bolster the other expense portion of our budget. In addition, three-fourths of a million was included to provide for the heat and services and so forth in the new buildings. And lastly \$1 million was included for research; but lastly and really lastly there was a very important and high priority item of \$8½ million dollars to improve the salaries of faculty and staff. This, if you have your pencils out, adds up to \$101 million dollars that was needed for the current biennium.

Now a quick estimate of our income, what we can expect for the biennium from sources other than the Commonwealth, showed that to amount to about \$57 million. 101 minus 57 leaves an income gap of \$44 million and this was the amount we requested from the legislature. As all of you know we didn't get the \$44 million. I've asked myself many times if there was anything that might have been done, that wasn't done, or that could have been done, to ensure a favorable action on our request, and I honestly do not think there was. There are many factors that enter into this problem. The first of course, is that every time the administration changes in Harrisburg, the governors also change, and usually the incoming governor is not familiar with Penn State, and he has not had the chance to learn very much about the educational institutions of the state. You realize of course, the governor is inaugurated early in January. Within

a month of his inauguration he has to present his appropriations request to the legislature. This simply doesn't give him enough time to put together a properly debated and considered request. Governor Lawrence out of this set of circumstances requested that the legislature give approximately the same percentage increase in appropriations to Penn State, Pitt, Penn, and Temple, and to all other institutions of higher learning that depend upon the state for appropriations, and of course, this doesn't consider the differences in enrollments and increases in enrollments.

You'll also recall that the control of the House was in the Democratic majority, and this majority was committed to support the governor's platform and his appropriations requests, and it did not deviate from this commitment. Let me say that many members of the House told me that Penn State deserved more money than it was being granted, but the State could not spend what it did not have. The Republican Senate also seemed sympathetic to Penn State's request, but as you will recall, it was committed to a program of not raising taxes and was doing its best to cut costs. It was, they said, too difficult for them to justify raising Penn State's appropriation while cutting others.

Hoped for Amendment

Nevertheless, even until the last minute, I had hopes that our bill would be amended in either house, and that the total could be raised in a final conference between the House and the Senate, and that we would be confronted only with the problem of getting the Governor to approve the increase. Early in the struggle it was quite apparent that we could not get the whole \$44 million; consequently after a considerable amount of thought and consultation, we reluctantly decided to raise the tuition and scale our request downward by approximately \$4 million.

Unfortunately in the end our plans failed. The final bill appropriated 34 million and we were granted 7 million short of the amount we needed.

* * *

Again I've asked myself in retrospect whether there was anything we could have done differently. You must remember that there are a good many unfavorable factors. First of all only five percent of the people of this Commonwealth are college graduates. The State still sends only one-fifth of its college-age youth to college as full-time students. These facts hardly create a general atmosphere in which the people of the State are willing to be taxed still more for the support of public higher education.

Again, the state has more than 50 private colleges and until recently

many of them feared the growing octopus in Centre County and actively opposed us in Harrisburg. I am happy to say that this no longer appears to be true.

We further must always remember that this State pays a large percentage of the cost of public school education at the state level. In fact, in Pennsylvania the State pays almost 50% of the cost of the schools in comparison to a national average of about 40 percent. And because much of the cost of the schools is not met on a local level a high demand is made on the State budget.

And lastly we must remember that 90% of all the funds that are paid to private colleges by state governments in the entire country, are paid by the State of Pennsylvania. And in almost no other state is public support granted to institutions other than public colleges and universities.

Of course, overriding all this is the fact that everyone wants more, and no one wants to pay more taxes. There are forces which are requesting more money for health, more money for old age benefits, more money for highways, the schools want more money, the big universities want more money, and the steel strike cut into our business activity and reduced our tax revenue.

Persuasion or High Pressure

Lastly, is the fact that we are gradually getting into an urban versus rural conflict in our legislature. We must remember there are a lot more state legislators from Philadelphia and Allegheny counties than there are from this county. Unfortunately for us, there are large institutions in urban counties that also want more support.

Of course, in a problem like this, one always has to choose between gentle persuasion and high pressure salesmanship. Is it better to try to persuade the legislators to grant Penn State the funds it needs, or to put them in a position where they have to vote them reluctantly? There is even a question in my mind as to what is persuasion and what is high pressure salesmanship.

* * *

I am sure if we were concerned only with short run affects, some sort of pressure could be used. But we are not concerned primarily with the short run. Penn State has been here for a long time, and it will be here for a long time more. Therefore, I think our best bet is persuasion, and by this I mean to point out that there is a need that Penn State spend its money wisely and well, that we run an efficient operation and that the State will get a great deal of value by supporting its state university adequately.

How have we spent the money that we received from increased tuition and from the increased appropriation? First

let me repeat that for a number of reasons the 2% for increased cost was grossly inadequate. First of all we would expect to have the same number of students in 1959 as we had in 1958, but events proved us wrong in this expectation. Our enrollment increased mainly because of our higher retention rate, which apparently comes from the result of having a better freshman class; but in any event a higher percent of our freshmen returned at the beginning of the sophomore year. And this forced us to add more staff members which added an expense which we had not anticipated.

* * *

The new staff and teachers that were hired just this year and the up-grading of positions cost us about a half million dollars for the biennium.

We've had to put up 10% of the NDEA loan funds and all the costs of administering the program, and there are many others of this kind. In this way the one and one-half million dollars set aside for increased costs was committed even before our budget was finalized. In apportioning the additional funds, we had almost no choice, but to pay for these items over which we have so little or no control or for which we are already committed.

Pay Increases

As you know we have made a decision not to make any pay increases retroactive. There were two reasons for this.

First I didn't think we had enough money, and second if we spent the money we did have over a seventeen-month period instead of over a twenty-four-month period, we could make the pay scales higher. Now, this will have some effect on the next biennium. Indeed that effect might be dangerous in that we have already committed ourselves to a spending level that is higher than the income from our present tuition and appropriations. I might also add that we've decided at least for the faculty and professional staff to use merit as the single most important criterion for salary increases. There is no point in permitting a man to leave our staff and then paying more money to hire a replacement for him from some other college or university. If a man is worth more to another college, he may be worth more to us. Of course I might say that offers from other institutions are not necessarily indications of merit, but we must make it possible for outstanding members of our faculty to remain with us. Anyway, with these considerations in mind, this austerity budget has been approved and is in effect.

(Additional excerpts will be published next week)

Calendar

Next Week

Friday, Feb. 12

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. L. S. Birks, head, X-ray Optics Branch, U.S. Naval Laboratory, Washington, D.C., on "Application of the Electron Probe Microanalyzer to Metals and Minerals."

Fluid Mechanics Seminar, 4:10 p.m., Room 211 Mechanical Engineering Building. Dr. William C. Criminale, department of aeronautics, Johns Hopkins University, on "Growth of Localized Disturbance in a Laminar Boundary Layer."

Saturday, Feb. 13

Varsity wrestling, versus Navy, 7 p.m., Rec Hall, followed by basketball, versus Rutgers.

Sunday, Feb. 14

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Rev. Sam Gibson, executive director, UCA.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Will Herberg, graduate professor of Judaic Studies and Social Philosophy, Drew University.

Artists Series program by the Chicago Opera Ballet, 8 p.m., Rec Hall.

Lecture by Dr. Will Herberg, professor of Judaism and social philosophy, Drew University, on "Biblical Faith and Political Understanding" at 4 p.m., Helen Eakin Eisenhower Chapel, sponsored by the Committee on Inter-religious Affairs.

Monday, Feb. 15

Faculty Luncheon Club meeting, 12 noon, dining room "A", Hetzel Union Building. Wayne Wilson, professor of landscape architecture, on "The Faculty Member's Stake in Community Planning."

State College Color Slide Club meeting, 7:30 p.m., Mineral Industries Auditorium. James Canavan, talk and show slides on "Antarctica IGY, 1957-58."

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A". G. M. Dushinberre on "Heat Flow."

Tuesday, Feb. 16

Five O'Clock Theatre production of "The Return," original one-act play by Janet Durtine, senior in Journalism, 5 p.m., Little Theatre, Old Main. Free.

Academic Year Science Institute lecture by Dr. Haskell B. Curry, professor of mathematics, on "Logic in Mathematics" 4:15 p.m., Room 100 Weaver.

Society of Sigma Xi lecture by Dr. Paul C. Mangelsdorf, professor of botany at Harvard University, on "The Origin and Evolution of Corn," 8 p.m., Room 119 Osmond.

Wednesday, Feb. 17

Forestry Convocation, 11 a.m., Room 121 Sparks. Honors ceremony for former professors and wives. Talk by Dr. C. R. Carpenter, Division of Academic Research and Services, on "Citizenship as the Key to Professional Success."

Graduate Lecture Series. Dr. Delbert Oberbauer, professor of physical education, Ohio State University, on "A Biological Basis for Responsibility in Education," 8 p.m., Room 121 Sparks.

Thursday, Feb. 18

Meeting of the faculty, College of Home Economics, 4:15 p.m., Room 14, Home Economics.

American Chemical Society meeting, 7:30 p.m., Room 119 Osmond. Dr. Edwin R. Fitzgerald, associate professor of physics, on "Viscoelastic Behavior of Solids."

Friday, Feb. 19

Mineral Industries Colloquium, Dr. W. Lewis Hyde, director of development, J. W. Fecker Div., American Optical Co., on "Recent Developments in Microscopy," 4:15 p.m., Mineral Industries Auditorium.

Opening night of Center Stage production of "An Italian Straw Hat," 8 p.m., Center Stage. Also Saturday and following five weekends.

Next Month

Feb. 21—Student Music Recital.

Feb. 22—Lecture by Hugo Weisgall on "Drama into Opera."

Feb. 23—Artists Series presentation by the Netherlands Chamber Choir.

Feb. 24—Brotherhood banquet, 6 p.m., HUB

Feb. 25—Basketball, vs. Lehigh, 8 p.m.

Feb. 27—Gymnastics, vs. Pitt, 2 p.m.

Wrestling, vs. Pitt, 8 p.m.

Mar. 3, 4, 5—Players production of "Detective Story," Schwab, 8 p.m.

Mar. 8—University Lecture Series, 8 p.m., Schwab. Cyril Northcote Parkinson.

Mar. 9—Artists Series, 8:30 p.m., Schwab. Benno Moiseiwitsch, pianist.

Mar. 11—Hugo Weisgall lecture on "20th Century Lyric Theatre," 8 p.m., HUB assembly room.

Mar. 13—University Lecture Series. Hermann J. Muller on "The Future Physical Development of Man," 8 p.m.

Mar. 15—AYI lecture by Dr. S. Tolansky, 4 p.m., Weaver.

Mar. 15—University Lecture Series. John Scott, Time magazine, on "Russia," 8 p.m.

Mar. 18—Artists Series. Cesare Siepi, 8:30 p.m., Schwab.

Television Broadcasts

WFBG-TV, CHANNEL 10

Saturday, Feb. 13—Reading Instruction in the Elementary School, Dr. Lyman C. Hunt, 9-9:30 a.m.

Monday, Feb. 15—Also Wednesday and Friday, course in "Personal Finance," 9-9:50 a.m. Lecturers: M. Virginia Britton and David H. McKinley.

Monday, Feb. 8—Also Wednesday and Friday, news-interview program, "Postscripts," with Marlowe D. Froke, 9:50-10:00 a.m. Guests: Richie Lucas and Lawrence E. Dennis.

Monday, Feb. 8—Also each week day, the Farm, Home and Garden program, 12:30-1:00 p.m.

Players show begins

A five-act comedy with songs, "An Italian Straw Hat," written in 1851 by Eugene Labiche and Marc Michel will be presented by Penn State Players at Center Stage for six weekends, beginning Feb. 19 and 20. Curtain time is 8 p.m.

Labiche is considered the outstanding humorist of the 19th century in France. This play has been performed many times both in America and abroad.

This show is the 40th anniversary production of Players.

ACS meeting Thursday

Dr. Edwin R. Fitzgerald, associate professor of physics, will address the monthly meeting of the Central Pennsylvania Section of the American Chemical Society on Thursday, Feb. 18, at 8:30 p.m. in Room 119 Osmond. He will speak on "Viscoelastic Behavior of Solids."

Corn lecture subject

"The Origin and Evolution of Corn" will be the subject of the Society of Sigma Xi lecture on Tuesday, Feb. 16 by the noted biologist Dr. Paul C. Mangelsdorf.

Professor of botany at Harvard University, Dr. Mangelsdorf has served as president of the Genetics Society of America, as a member of the Rockefeller Agricultural Mission to Mexico, as a member of the Board of Consultants for Agriculture of the Rockefeller Foundation (from 1943 to the present) and as president of the Society of Naturalists. He has written extensively on genetics, plant breeding, and agriculture.

The lecture will be given at 8 p.m. in Room 119 Osmond and is open to the public.

faculty BULLETIN

Vol. 47, No. 20

Feb. 12, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Penn State Collection,
Pattee Library.

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Dialing errors cited

Incorrect dialing on campus phones is causing considerable inconvenience not only for the person calling but also for the person answering at the incorrect number.

Wilbur F. Diehl, supervisor of telephones in the department of maintenance and utilities, reports that he has had many complaints in the past few months of wrong numbers which are caused, he learns, by dialing errors.

"The mistakes fall into two categories," Diehl reports. "A number of persons on campus making calls to other campus phones are dialing UN, followed by five digits. With the present equipment, it is entirely possible that a number will be reached, but it will not be the correct number. If a number is dialed to which no phone has been assigned, the caller will be connected with a recorded voice informing him of his error."

When calling from one campus phone to another, the letters UN should not be dialed.

The second category of errors results on calls from campus phones to those in Adams, Elgin, and Homestead exchanges. Persons dialing the off-campus number without first dialing 9 will get either a wrong number or a recorded voice advising them of their error in dialing.

When dialing to an off-campus number, from UNiversity exchange phones, always dial 9 first.

Senate meets Mar. 10

The University Senate will meet next on Mar. 10 at 4:15 p.m. in Room 121 Sparks.

Sulfolipid proves ubiquitous

THE long, snakelike chain of colored balls was, as Dr. Andrew A. Benson explained, a representation of the molecule of sulfoglycolipid.

"This yellow ball," he said, pointing to one of the balls almost completely surrounded by white ones, "represents the sulfur atom. The whole chain is made up of sulfonic acid, a sugar, glycerol, and a fatty acid, and technically we call it sulfodeoxyglycosyl monoglyceride.

"We know now that this molecule is one of the most common lipids (fat compounds) in plant tissue, and that it does not occur in animals. We know something of its function too, in plants but we hope to learn much more, because it appears that it is one of the keys to how plants use the energy of sunlight in order to grow."

Dr. Benson is associate professor of Agricultural and Biological Chemistry. A little more than a year ago he, along with graduate student Robert Wiser, announced the discovery of this sulfolipid and that it is a common constituent of plant tissues. A year ago Dr. Helmut Daniel joined the group. In November, they announced their findings on the chemical nature of the compound. The announcement also indicated that the sulfolipid had much to do with photosynthesis; without photosynthesis,

plants would not survive. All photosynthetic parts of plants have the sulfolipid. The seeds and white parts don't.

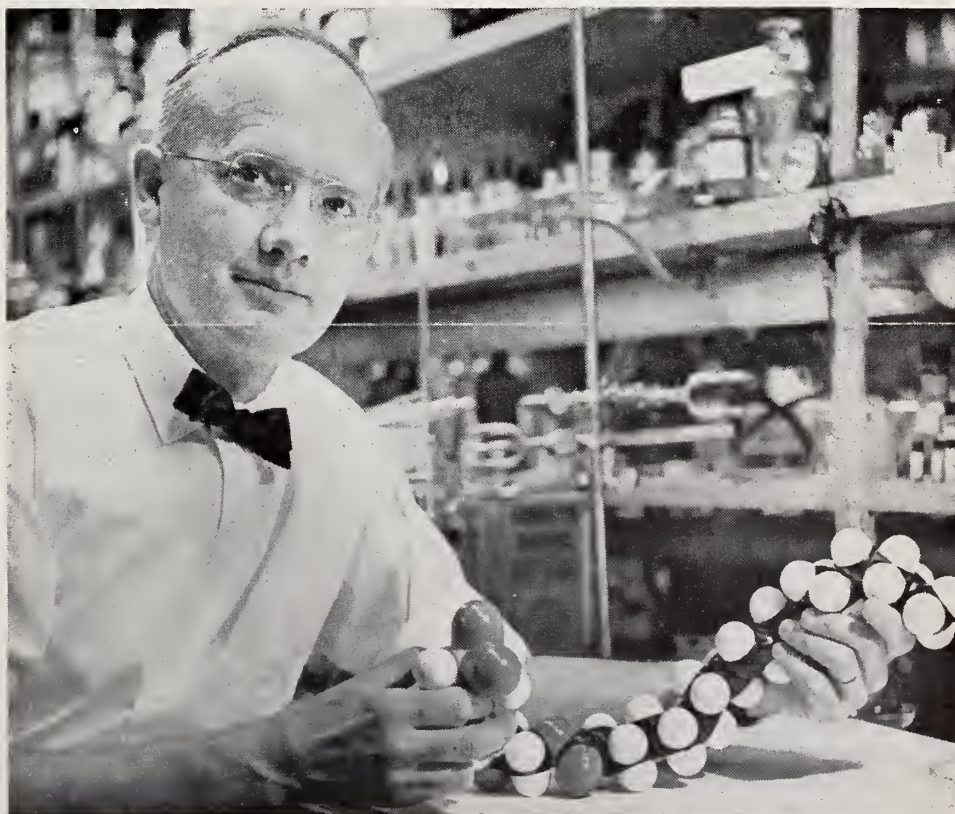
A month after the publication of Dr. Benson's paper on the new sulfolipid, three scientists at the National Jewish Hospital at Denver and the University of Colorado School of Medicine, announced that they had determined that tuberculosis bacteria of humans and animals were surrounded by a fatty material which had high concentrations of a similar sulfolipid. They conjectured that without this covering the bacteria would not be virulent, and so they hoped to attack this important disease through further investigation of the sulfolipid.

"We are learning over and over that this organic chemical is ubiquitous," says Dr. Benson. "Besides being common in plants, something very similar to it has been found in brain tissue, an important difference being one oxygen atom."

If this fat lipid is so common, why has it taken so long to discover?

"One answer certainly must be that we couldn't see the forest for the trees," Dr. Benson explains. "This is a rather simple compound which has only one fatty acid, oleic acid. Its sulfosugar, however, could not have been anticipated."

(Continued on page three)



Dr. Andrew A. Benson, associate professor of agricultural and biological chemistry, with a model of the sulfur compound he discovered is an essential component in the green chloroplast of plants, and therefore important in photosynthesis.

Faculty address

The following are further excerpts from the talk by President Eric A. Walker before the faculty on Wednesday, Feb. 10. In last week's issue he discussed budget matters.

* * *

In the first place, we got \$4 million from the Legislature. We didn't get the \$4 million from higher tuition; we got closer to \$3 million, but let's call it \$3½ million. The reasons were: we didn't raise everyone's tuition. We raised tuition to \$480. This meant no change in the Commonwealth campuses for they had been paying \$480; indeed some of them had been paying \$500 and for them it was a small reduction.

In the second place, you must remember that we made an increase in the rebates to faculty and staff, relatively. And these two factors made our income, additional income, from these two sources about \$7½ million. Our increased cost — insurance, heating the new buildings, purchasing necessary equipment, the additional cost of supplies and maintenance, the social security added cost, the increase in electricity, and the use of water and telephone, and so forth — all added up to what we expect to be \$2 million for the biennium, and this cuts us to \$5.5 million.

I mentioned that we had already committed about a half million dollars for the biennium for additional faculty and staff, and upgrading. This cuts us to \$5 million.

We've increased the hospitalization benefits and we expect to introduce some major medical expenses which over the biennium will cost us half a million dollars. This reduces us to \$4½ million and this is exactly the sum we have allocated in increased salaries for faculty and staff.

More teachers needed

So that is what has happened to the \$8 million. Now what about next year? I'd like to say that under our present budget limitations we're not going to be able to admit as many freshmen as we should and thousands of qualified applicants are going to be turned away. The exact number of freshmen hasn't been determined yet.

* * *

Whether or not we add any additional students in the future will depend on whether we can obtain the additional money to hire additional teachers to teach additional students.

On this point I might say that recently, on Jan. 2 to be exact, I spent considerable time with the governor in Pittsburgh discussing the problems of education for the Commonwealth and

the University. In the course of this discussion I was able to explain to him the needs of the Commonwealth as I see them; what part the private colleges expect to play in meeting these needs; and what Pennsylvania State University must do to carry out its plans under the long-range report.

I was able to point out that although our appropriations have increased substantially in the past few years, actually our appropriation per student has not increased a great deal in spite of rising prices. And best of all, I think I was able to convince him that Penn State has a sound plan and is doing its best to carry out that plan efficiently and at the lowest possible cost to the Commonwealth. Well, that much is history.

Now let's look for a few minutes at some of our present problems and some of our hopes for the immediate future. In our efforts to arrive at realistic cost estimates for our long-range plan and to formulate and justify our appropriations request and to discover if and how we could lower the cost of our programs while maintaining and improving the quality, we made a good many studies to find out how we spend the money we get. As a result of these studies, we know with some exactness what it costs us to teach a student credit-hour in any course in the university. We know for instance that it costs \$4.20 to teach one student credit-hour in history. We know that the corresponding figure for a course in mechanical engineering is \$13.49. We also know how much it costs to teach all the courses that are needed for a degree, say, in economics, or chemical engineering. We know what these costs are not simply at University Park but also at the Commonwealth Campuses.

In fact, we now know that although most of our courses are taught less expensively at the Commonwealth Campuses than they are here at University Park, there are other costs which make some of the campuses extremely expensive to operate. Because of this and other reasons, we are seriously considering the closing of at least one campus and we may close others if operational costs can't be reduced. These studies are useful, but largely they are aimed to show us where the money went.

* * *

As all of you know, in general it costs twice as much for students to teach two sections of 15 students each as it does to teach one section of 30 students. This would suggest asking, "Isn't it possible for one of our colleges or one of our departments to experiment with rearranging all the courses it offers, and all its teaching efforts, in an attempt to obtain a more efficient operation without reducing the quali-

ty of its programs?" Perhaps if the faculty could be assured that all of the funds budgeted for instruction would be used solely for salaries, they could see that it might be able to increase their salaries through such an arrangement and to improve the quality of instruction at the same time. I would think the prospect of achieving such a goal would make the whole thing worthwhile. At some time in the future I intend to talk about such a program with one or the other faculties of the college and to challenge it to organize and conduct a basic educational experiment of this sort.

\$50 Million Operation

The University is now a \$50,000,000-a-year operation. This is big business, too great to run by itself, and some administration is necessary if only to perform the housekeeping chores. I want to assure you that I put just as much pressure on Old Main operations as I have on the deans of the colleges, and I think I can report some significant advances.

* * *

But in fairness, I think it should be recognized that gains have been made in other areas. From statistics presented in a report recently published by the U.S. Office of Education, it's possible to compute the percentage of faculty and professional staff of an administration who were engaged in general administration in 1957. The average for all colleges and universities in the State of Pennsylvania is nine per cent; for the Pennsylvania state colleges—these are the ex-State Teachers colleges—the average is 11%; for the big three, Pitt, Penn and Temple, the figure is 2.3%. Penn State happens to have the lowest percentage of all, 2%. For universities of our own kind, the percentage at Rutgers was 5.6; for Indiana, 3.7; Michigan State, 4.4; Illinois, 3.3; Wisconsin, 2.2; and Minnesota, 2%, the same as Penn State's.

* * *

During the past three years, we've been talking a great deal about improving the quality of our programs. I don't know how one measures quality, but from where I sit, I'm convinced there has been a great deal of improvement in the quality of our staff. I'm also sure that this and other things have led to an improvement in our standing, especially in a good many of our departments. Recently I wrote a letter to each department head and asked him to tell me how his department rated in the area of his specialty in comparison with similar departments in other institutions across the country. Did it rank first, in the first 5, the first 10, the first 10%? Five of these departments — geophysics and geochemistry,

dairy science, mineral economics, petroleum and natural gas engineering, mineral preparation—rated themselves best in the country. Eighteen others ranked themselves among the first five; in addition 13 said they were in the first ten. Another 15 claimed to be in the top 10%.

* * *

All these things and others have been done, but there is work in progress that will lead to results just as significant. We have made some steps towards year-round operations; we are shortly to see the Summer Sessions dissolved, and its operations incorporated in the regular university organization. We're about to approve honors programs in some curriculums. We will shortly announce a uniform first-year engineering curriculum involving all four colleges that offer engineering courses and programs.

Before long I hope to be able to announce a uniform baccalaureate curriculum at the commonwealth campuses. We've taken the beginning steps towards a wholesale revision of the engineering and architecture curricula. Now optimism over the things that have been done and things that will be done has to be tempered by a consideration of some of the things that we have not been able to do.

We've tried to hold the line on the multiplication of courses without much success. We have explored the possibility of starting departments in astronomy, bio-physics, and in oceanography. We have had to delay our plans for all of these because of financial limitations. We have not been able to keep pace with the demand for under-graduate education in the Commonwealth. The number of qualified applicants increasingly out-run our ability to accept them. This fact, I believe, has raised the quality of our beginning freshman classes significantly, but it has forced us to deny admission to hundreds, even thousands, of Pennsylvania youth well qualified to pursue collegiate careers. We've not been very successful in our efforts to hold the line on increases on tuition charges.

On the whole the balance sheet looks good, very good; a fact that I competently expect will be confirmed when, in just a few years, we are visited again by the Middle States Association. Over and over again, distinguished and knowledgeable visitors to our campus have expressed to me their sincere admiration for work we're doing. For this, the progress we have made, and progress we can fully expect to be made in the future, I want to thank all of you. Penn State is a great university and I am confident that it will soon be a truly distinguished one.

News in Brief

new castle to close

President Eric A. Walker announced last weekend that the New Castle Center will be closed at the end of the current academic year.

Only the program in resident education and the operation of the Oak Street School Building will be terminated. Evening courses and other informal educational programs will continue.

Falling enrollments and condition of the physical facilities were given as reasons for the termination of the Center.

weisgall lecture monday

Dr. Hugo Weisgall, distinguished visiting professor of music, will present the first lecture in this semester's Liberal Arts Lecture Series on Monday, Feb. 22 at 8 p.m. in Room 10 Sparks.

He will speak on "Drama into Opera: A Process of Transformation."

The New York City Opera Company yesterday opened production of Weisgall's opera, "Six Characters in Search of an Author," which is based on a play by Luigi Pirandello. The opera will also be seen in Washington, D.C. on Feb. 29 and in Boston on Mar. 4. The Ford Foundation is sponsoring the production.

groth institute tour

A lecture and tour of the Groth Institute will be given by Dr. Raymond Pepinsky, research professor of physics and director of the Institute, on Thursday, Feb. 25 at 7:30 p.m. in Room 111 Boucke.

All interested persons are invited to the lecture, which will be a feature of the monthly meeting of Phi Lambda Upsilon, honorary chemical society.

buffet supper planned

A buffet supper, sponsored by the Penn State Junior Hotel Greeters will be held in the Maple Room and Cafeteria of the Home Economics Building on Sunday, Feb. 21 from 4:30 to 6:30 p.m. The supper, which features beef, is planned, prepared, and served by hotel administration students. Tickets are priced at \$1.75 and reservations may be made by calling UN 5-7101.

brotherhood banquet

The annual Brotherhood Banquet, sponsored by the Committee on Interreligious Affairs and the Office of the Chaplain, will be held on Wednesday, Feb. 24, at 6 p.m. in the HUB ballroom.

Dr. John J. Kane, head of the department of sociology at Notre Dame University, will speak on "Promoting Harmony in Interreligious Relations."

Sulfolipid —

(Continued from page one)

ed from what we know of sugar biochemistry. It could be overlooked easily in the search for other lipids.

"We have new techniques of investigation to help us which were not available until a relatively few years ago. One of these is the method of labeling sulfur atoms which are found in plants by growing the plant in nutrient containing radioactive sulfur. In further identifying the molecule, containing the sulfur atom, we grew the same plants with radioactive carbon dioxide so that we could identify the rest of the molecule.

"The type of sulfur compound—it has been known for many years that sulfur was necessary for plant growth—in the tissue was unsuspected. Perhaps it would be more accurate to say that it was not studied thoroughly because biochemists had no bridge to lead them to the sulfonic acid type of compound. The radioactive sulfur atom really acted like a lighthouse, no bridge was necessary.

"Paper chromatography is the technique available to us; this allows us to separate and to identify radioactive compounds on a small scale."

Since the recognition of the lipid, Dr. Benson's attention has been focused on learning more about its properties. To do this he obtains plant and animal tissues from many parts of the globe, including the Pasteur Laboratory in Paris, an algae producing factory in Japan, and from Liverpool, England. In his own laboratory, he grows algae in glass tubes as a research subject.

Aside from its importance in the life-process of photosynthesis sulfolipids may, if synthesized by man, prove to have many applications in foods, as many other fat derivatives do. It should be a useful natural detergent which could be added to human foods without danger. The human has eaten it for millenia. It is a compound almost like the modern detergents.

What was the reaction to Dr. Benson's discovery?

"So far," he says, "it has been a mixture of surprise and interest, as well as astonishment. Since this is a new field of investigation, few biochemists fully understand the significance of these sulfolipids. Organic chemists recognize them as a challenge to reconstruct them in the laboratory. Furthermore, the identification of these fats by radiochromatographic methods is also new, which some chemists find hard to accept.

"But there is little doubt in my mind that sulfolipids are ultimately going to be proved to be of extreme importance to man and animals."

Calendar

Friday, Feb. 19

Mineral Industries Colloquium, Dr. W. Lewis Hyde, director of development, J. W. Fecker Div., American Optical Co., on "Recent Developments in Microscopy," 4:15 p.m., Mineral Industries Auditorium.

Opening night of Center Stage production of "An Italian Straw Hat," 8 p.m., Center Stage. Also Saturday and following five week-ends.

Metallurgy Seminar, 1:15 p.m., Room 121 Mineral Industries. Dr. R. W. Lindsay, on "Ultra High Strength Alloy Steels."

Saturday, Feb. 20

Center Stage production of "An Italian Straw Hat," 8 p.m.

Varsity gymnastics, versus Syracuse, 2 p.m., Rec Hall.

Wrestling, versus Syracuse, 8 p.m., Rec Hall. Freshman wrestling at 6:30 p.m.

UCA Series of forums on "The Christian and the Problems of Contemporary Culture," 8:30 p.m., Helen Eakin Eisenhower Chapel. Dr. Prentiss Pemberton, Colgate-Rochester Divinity School on "Work and Vocation in an Age of Automation."

Sunday, Feb. 21

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Student Day of Prayer.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Prentiss L. Pemberton, professor of social ethics, Colgate-Rochester Divinity School.

Student music recital, 4 p.m., Schwab Auditorium.

Monday, Feb. 22

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. William Hajjar, on "The Proposed Mall for State College."

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A". Dr. Walter Jaunzemis on "Thermoelectric Equations in Case of Stationary States of Stress and Temperature."

Hugo Weisgall lecture in Liberal Arts Lecture Series, 8 p.m. Room 10 Sparks. Title: Drama into Opera: A Process of Transformation."

Tuesday, Feb. 23

Artists Series program by the Netherlands Chamber Choir, 8:30 p.m., Schwab Auditorium.

Economics Faculty Seminar, 12 noon, dining room "A", HUB. Neil W. Chamberlain, professor of economics, Yale University, on "The Need for a New Economic Orthodoxy."

Five O'Clock Theatre, original one-act plays, 5 p.m., Little Theatre, Old Main. "Demonigratious," by Michael Corrado, junior in arts and letters.

Wednesday, Feb. 24

Brotherhood Banquet, 6 p.m., HUB ballroom. Dr. John J. Kane, head of the department of sociology, Notre Dame University, on "Promoting Harmony in Interreligious Relations."

Forestry Convocation, 11 a.m., Room 121 Sparks. Dr. Robert T. Oliver, head, depart-

ment of speech, on "What Do We Mean by Good Speech."

Metallurgy Seminar, 4:15 p.m., Room 115 Mineral Sciences. Dr. J. J. Schanz, Jr., on "Competition in Steel — Inter, Intra, Extra."

Thursday, Feb. 25

Lecture on The Groth Institute, by Dr. Ray Pepinsky, director, followed by tour, at monthly meeting of Phi Lambda Upsilon, 7:30 p.m., Room 111 Boucke.

Basketball versus Lehigh, 8 p.m., Rec Hall.

Next Month

Mar. 1—Graduate School Lecture by Gerald W. Johnson, 8 p.m., Room 121 Sparks.

Mar. 2—UCA Series on "Theological Concepts," 8 p.m., The Chapel.

Feb. 27—Gymnastics, vs. Pitt, 2 p.m. Wrestling, vs. Pitt, 8 p.m.

Mar. 3, 4, 5—Players production of "Detective Story," Schwab, 8 p.m.

Mar. 8—University Lecture Series, 8 p.m., Schwab. Cyril Northcote Parkinson.

Mar. 9—Artists Series, 8:30 p.m., Schwab. Benno Moiseiwitsch, pianist.

Mar. 9—UCA Series on "Theological Concepts," 8 p.m., The Chapel.

Mar. 11—Hugo Weisgall lecture on "20th Century Lyric Theatre," 8 p.m., HUB assembly room.

Mar. 13—University Lecture Series. Hermann J. Muller on "The Future Physical Development of Man," 8 p.m.

Mar. 15—AYI lecture by Dr. S. Tolansky, 4 p.m., Weaver.

Mar. 15—University Lecture Series, John Scott, Time magazine, on "Russia," 8 p.m.

Mar. 16—UCA Series on "Theological Concepts," 8 p.m., The Chapel.

Mar. 18—Artists Series. Cesare Siepi, 8:30 p.m. Schwab.

Mar. 18—NCAA Gymnastics tournament, 2 p.m. and 8 p.m.; also Mar. 19 at 8 p.m.

Mar. 20—University Lecture Series: Dr. Leslie A. White, 8 p.m.

Television Broadcasts

WFBG-TV, CHANNEL 10

Saturday, Feb. 20—Reading Instruction in the Elementary School, Dr. Lyman C. Hunt, 9-9:30 a.m.

Sunday, Feb. 21—"The Soviet Challenge," with regular panelist Dr. V. V. Asaturian, and guests, Rustum Roy and Elton Atwater, 5 p.m.

Monday, Feb. 22—Also Wednesday and Friday, course in "Personal Finance," 9-9:50 a.m. Lecturer: Arthur L. Williams.

Monday, Feb. 22—Also Wednesday and Friday, day, news-interview program, "Postscripts," with Marlowe D. Froke, 9:50-10:00 a.m. Guests: R. K. Murray; Frank Simes; Elton Atwater.

Monday, Feb. 22—Also each week day, the Farm, Home and Garden program, 12:30-1:00 p.m.

Netherlands Choir

The 18-voice Netherlands Chamber Choir, directed by Felix de Nobel, will present the next program in the Artists Series on Tuesday, Feb. 23 at 8:30 p.m. in Schwab Auditorium.

Tickets for the presentation will be sold to the general public starting Saturday, Feb. 20 at 9 a.m.

The Choir was formed by de Nobel in 1937 to present a cappella music (although it also sings to accompaniment) which has long had great popularity in Holland. Some of Holland's most distinguished singers are included in the Choir, which has made many tours of European cities. Several of the Choir's fine recordings have proved popular in this country but this is the first tour of the group in the United States.

The program includes many traditional Dutch songs.

Forum series starts Feb. 20

The first of a series of forums of interest to faculty and staff members and graduate students will be held on Saturday, Feb. 20 at 8:30 p.m., in the Helen Eakin Eisenhower Chapel.

Titled "The Christian and the Problems of Contemporary Culture," the series is sponsored by the University Christian Association.

Dr. Prentiss Pemberton, professor of social ethics at Colgate-Rochester Divinity School will speak on "Work and Vocation in an Age of Automation" on the first forum.

Center Stage play opens

Players' production of "An Italian Straw Hat" by Eugene Labiche and Marc-Michel opens at Center Stage tonight at 8 p.m. It will continue each Friday and Saturday until Mar. 26.

faculty BULLETIN

Vol. 47, No. 21

Feb. 19, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Penn State Collection,
Pattee Library.

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Office design

With the aid of a \$7,500 grant from the Ford Foundation's Educational Facilities Laboratory, the Department of Physical Plant Planning and Construction and the Division of Academic Research and Services will shortly begin experimentation with a new concept in faculty office design.

Walter H. Wiegand, director of the department, who conceived the new design, describes the study as one of a number to aid the University's long-range planning of physical facilities.

An unusual office design, providing space for two faculty members plus an area which might be described as a conference room, will be tried in the experiment.

"The design incorporates flexibility and an interrelationship of groups of offices not possible in the usual office layout," Weigand says, "and also lends itself to efficient use of space."

In the near future, full-scale mock-ups of the offices will be built and a number of faculty members will be invited to participate in the experiment to learn as much about the design as possible. DARS, directed by Dr. C. R. Carpenter, will conduct a study of faculty reactions to the models.

"Such other factors as soundproofing, type of lighting, effects of color schemes, furnishings, and many others will be studied," Wiegand explains.

One of the features of the design is that although it provides about the same square-foot-per-person area as is normally considered for office use, an impression of greater size is given and, at the same time, a feeling of privacy is obtained.

News in Brief

Johnson lecture

Dr. Gerald W. Johnson, author and former news commentator and newspaperman, will be the next speaker in the current Graduate School Lecture Series on Tuesday, Mar. 1 at 8 p.m. in Room 121 Sparks.

His talk is titled "The Man Who Feels Left Behind."

Author of many books, among them *Lunatic Fringe*, *Pattern For Liberty*, *The American People*, and *Incredible Tale*, Dr. Johnson has had a long career in journalism. A native of North Carolina, he received bachelor's and doctor's degrees from Wake Forest College, studied at the University of Toulouse, France, and was granted doctorate degrees by the College of Charleston University of the South, and the University of North Carolina.

His newspaper work included many years in newspapers in North Carolina and as editorial writer for the Baltimore Evening Sun and The Sun. In 1943 he began free lance work and in 1952 became news commentator for Station WAAM-TV, Baltimore.

Among his honors are the 1953 Du Pont Commentators Award; the 1954 Sidney Hillman Foundation Award; and the 1954 George Foster Peabody Award.

Players show

Sidney Kingsley's drama, "Detective Story," will be given by Penn State Players in Schwab Auditorium on Thursday, Friday and Saturday, Mar. 3-5 at 8 p.m.

First produced in New York in 1949, the play ran for 581 performances. It tells the story of a detective whose aim in life is to see that the law is obeyed to the letter. The setting is the squad room in a station house in Manhattan.

Kelly Yeaton, associate professor of theatre arts, directs the play, which stars Vince Landro, William Russ, and June Miller. Tickets are available at the HUB desk.

Gymnastics tickets gone

With the exception of a few tickets for the two sessions on Friday, Mar. 18, tickets for the National Collegiate Gymnastics Championships are sold. None are available for the finals on Saturday evening, Mar. 19.

UCA colloquy begins

A series of papers and a Faculty Colloquy on the subject, "Is Christianity Intellectually Defensible," sponsored by the Faculty Committee of the University Christian Association will be in-

itiated on Thursday, Mar. 3 at 8 p.m. in The Chapel.

The Reverend John Whitney, rector of St. Andrew's Episcopal Church in State College, will present a paper on "Grace and Responsibility." Discus-sants for this paper will be Dr. John Ferguson, director of the Institute of Public Administration, and Dr. Gordon Pritham, professor of physiological chemistry. A general discussion will follow.

Purpose of the papers is to examine certain basic concepts in religious understanding, and to acquaint faculty members with the content and methodology of theology.

Other papers in the series will include:

Mar. 10—Rev. Preston Williams, on "Revelation and Reason."

Mar. 17—Sam N. Gibson, on "Myth and History."

Guest lecturer for the Faculty Colloquy on Mar. 26 will be Dr. Julian Hartt, professor of philosophical theology and head of the department of religion at Yale University. The Colloquy will be held in the Wesley Foundation Building from 2:30 to 8:30 p.m.

Hanson exhibit opens

An exhibition of the paintings, drawings, and photographs by Bill Hanson, instructor in art, will be held in the HUB art gallery from Feb. 28 to Mar. 17. A reception will be held on Sunday, Feb. 28 from 3 to 5 p.m. in the gallery.

The photographs were among those Hanson took last summer while in Maine to do photographic research. Several of the paintings use optical effects of color to help create poetic statements.

A native of Maine, Hanson has studied at the School of the Museum of Fine Arts at Boston, at M.I.T., the University of Maine, and Colby. He has exhibited in many galleries in New England and New York and is represented as a printmaker in the permanent collection of the Addison Gallery of American Art.

Family living program

Mrs. Chosheng C. Lee, graduate student in Home Economics, will speak on "Food from China," on Monday, Feb. 29 at 8 p.m. in Room 204, Home Economics, in the State College Adult Education Program on Home and Family Living.

The series, which began on Feb. 22 and is under the direction of Mrs. Wayne Puckett, is being offered to all adults of the area. Fee for the eight sessions is \$4 but attendance at one session is permissible on payment of \$1 at the door. Talks are given each week until April 11.

Senate Minutes

Minutes of the Meeting of February 11, 1960

The University Senate met at 4:15 p.m. on Thursday, February 11, 1960 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the January 7, 1960 meeting were approved as printed in the Faculty Bulletin for January 22, 1960. One hundred ninety-one senators signed the roll.

COMMUNICATIONS FROM UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present and naming substitutes. The substitute is designated in parenthesis following the name of the senator: J. M. Anderson (H. W. Johnstone, Jr.), P. W. Fletcher (W. E. White), J. E. Livingston (A. R. Grove), F. W. Peckert (H. D. Bartlett), R. H. Wherry (Rocco Carzo), L. H. Sommer (H. G. Riney), E. R. Queer (Fred Nicholas), N. R. Sparks (M. S. Gjesdahl), R. C. Miner (G. W. Snerritt), A. H. Waynick (H. I. Tarpley), E. P. Strong (Alice Warne), and D. E. Hargenbergh (G. U. Opper).

New Senators

From the College of Agriculture, C. O. Claggett to replace H. O. Triebold as acting head of the Department of Agricultural and Biological Chemistry from February 1 to April 30, 1960.

From the College of Education, Howard Hoffman to replace E. T. McDonald for the Spring Semester, 1960.

From the College of Home Economics, Ruth Gates to replace Ruth Ayres as head of the Department of Clothing and Textiles for the Spring Semester, 1960; Miriam Lowenberg to resume Head of the Department of Foods and Nutrition; Ruth Pike to resume position as elected senator 1959-60; Eva Wilson to resume position as elected senator 1959-62; and Gilma Olson to replace Mary Dadds as an elected senator for the Spring Semester, 1960 of the 1959-61 term.

From the College of the Liberal Arts, Robert Engass to replace W. R. Weisman as acting chairman of Art and Architectural History; R. E. Clark, acting head of the Department of Sociology and Anthropology while W. G. Mather is on leave during the Spring Semester, 1960; R. W. Green elected senator for the 1959-61 term; N. M. Brentin elected senator for the year 1959-60 of the 1959-62 term of A. Druckman; and G. N. Raney elected senator to replace Lois Hyslop for the Fall Semester, 1959.

From L. E. Dennis, Vice President for Academic Affairs, regarding Baccalaureate Degree Programs at Centers and Campuses as follows:

This report on the progress toward increasing the effectiveness of the Baccalaureate Program of the University Centers and Campuses is submitted in accordance with the requirements of the Report of the Senate Committee on Extension Policy, approved by the Senate, that appeared as Appendix D of its April 2, 1959 agenda.

Since April, 1959, the College of Home Economics has rearranged its course sequence, so that students may now transfer without deficiencies to the University Park Campus after the second semester.

Within the College of Engineering and Architecture it is now possible for students at the Ogontz Campus to transfer after four semesters with a 2 credit deficiency in electrical engineering and a 4 credit deficiency in mechanical engineering.

It is noteworthy that with the Colleges during the past several months there have been increases (1) in consultations between University Park and Commonwealth Campus personnel, (2) in curriculum planning, particularly affecting the "common freshman year," and, (3) in the assessment of future budget and facilities requirements.

From Robert G. Bernreuter, Secretary to Senate, an excerpt from the minutes of the Board of Trustees meeting of January 30, 1960:

The Board of Trustees approved the change in Article I, Section 1 of the Constitution of the University Senate to add the Coordinator of Commonwealth Campuses, the Directors of the Commonwealth Campuses, and the Director of the Mont Alto Branch, as ex officio members, as recommended by the University Senate. Effective January 30, 1960.

From D. V. Josephson, Chairman of the SENATE COMMITTEE ON COMMITTEES, the following changes in committee assign-

ments which had the approval of President Walker:

Courses of Study Committee — C. W. Pierce, Chairman; J. H. Jones, Vice Chairman; R. C. Maloney, Dorothy Houghton, W. Paul Campbell, and C. R. Kinney as members to replace W. G. Mather, Ruth Ayres, E. T. McDonald, and E. W. Miller respectively while they are on leave during the Spring Semester, 1960.

Committee on Committees — W. F. Striedieck to replace J. W. Markham who is no longer a member of the Senate.

REPORTS OF STANDING COMMITTEES

M. N. McGeary, Chairman of the SENATE COMMITTEE ON ATHLETICS, presented the report which had been distributed with the agenda as Appendix "A". He stated that the change in Rule X-9 of the Regulations for Undergraduate Students, as presented by the Senate Committee on Rules at the January meeting of the Senate, had been studied and the Committee recommended its adoption with two minor changes. He moved adoption of the following recommendation:

X-9. A student shall not represent the University in any athletic contest if he is deficient by more than 10 credits of his total curricular requirements at the beginning of the semester.

The motion was seconded and passed. Mr. McGeary then presented a recommendation for changing Rule Y-3 and Z-3 as follows:

Y-3, Z-3. A student on probation, or a student deficient by more than 10 credits of his total curricular requirements at the beginning of the semester, shall not participate in any extracurricular activity of the University, except that he may continue to be an ordinary member of any organization without holding any office or committee membership whatsoever and without taking any active part in its activities.

This recommendation, with the changes in italics, was referred by the President to the Senate Committee on Student Affairs for consideration. The report is on file in the office of the secretary.

B. A. Whisler, Chairman of the SENATE COMMITTEE ON CALENDAR AND CLASS SCHEDULE, presented the report which had been distributed with the agenda as Appendix "B". After discussing the proposal Mr. Whisler moved adoption of the recommendation as presented by the Committee that the University Senate approve the following statement of policy:

WHEREAS: The Senate of The Pennsylvania State University believes that high academic standards can be maintained under either the semester system or the quarter system, and

WHEREAS: Other considerations involved in a decision as to whether the University should remain on a semester system or change to a quarter system are purely administrative in nature,

BE IT RESOLVED THAT: The Senate of The Pennsylvania State University believes that the responsibility for a decision as to whether the University should remain on the semester system or change to a quarter system should rest solely with the President of the University and its Board of Trustees.

The motion was seconded. President Walker spoke in regard to a study that would need to be made in order to move from the semester to the quarter system, stating that this could not be done on the spur of the moment. In the general discussion which followed comments and suggestions were made by J. J. Fritz, J. A. Mourant, J. D. Ridge, J. J. Schanz, R. G. Winter, B. A. Whisler, A. W. VanderMeer, H. Hoffman, and A. H. Brayfield. It was pointed out that if the University is not on a year round basis by October 1, 1960, classes will be held during the summer of 1961 the same as planned for the summer of 1960. Mr. Brayfield proposed the following substitute motion:

1. That the Senate reaffirm its full responsibility for academic decisions and with particular responsibility to the calendar, and

2. That it request of the President that he designate a work group to gather relevant data, including numbers, which would furnish a foundation for a responsible decision by the Senate with respect to a calendar change as it relates to full time operation.

The motion was seconded. It was pointed out by Mr. Whisler that these kind of data have been assembled in the past several years and has been presented to, and discussed by the Senate, both in regular and special meetings. Mr. Brayfield suggested that a half dozen representative departments, during the next six months, convert their present courses,

staff resources, etc., as a project to determine whether the University could profitably and comfortably be converted to a year round operation. After further discussion the amendment was lost by a vote of 68 to 94. The motion as presented by the Committee was passed. The report is on file in the office of the secretary.

C. W. Pierce, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the Agenda as Appendix "C", and pointed out that minor changes had been made in items No. 276 and No. 279. He moved adoption of items 271 through 274 and items 276 through 290 in Part A of the report. The motion was seconded and passed. He then asked for unanimous consent of the Senate to act on item No. 291, a new course Rus 1G, in Part B of the report. There being no objection, the motion was moved, seconded, and passed unanimously. The report is on file in the office of the secretary.

R. K. Murray, acting for R. E. Larson, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report which had been distributed with the agenda as Appendix "D", "Report on 800 Courses" reaffirming the policy recommendation as follows:

A department of the University sponsoring particular "800" courses may recommend these to the Courses of Study Committee, by the usual channels, as Baccalaureate Degree courses. Such approved courses will then be assigned numbers and designations accordingly and the "800" number dropped. Credits for courses bearing "800" numbers are not transferable to the baccalaureate programs.*

*Excepting by examination as provided under Rule L-4.

The motion was seconded and passed. The report is on file in the office of the secretary.

Mr. Murray then presented the report which had been distributed with the agenda as Appendix "E", "Policy Concerning Enriching or Accelerating the Education of Superior High School Students," and suggested that it be referred to the Senate Committee on Admissions. President Walker referred this recommendation to the Senate Committee on Admissions. The report is as follows:

The Senate Committee on Educational Policy recommends that the University Senate adopt the following policy to provide opportunities for the high school student to enrich or accelerate his education. (1) A superior high school student, upon the recommendation of his principal, should be permitted to take Penn State University associate or baccalaureate degree level correspondence courses. (2) A high school student who is in the upper 2/5 of his class, should be permitted to enroll as a Special Student in resident courses for which he is qualified. His qualifications shall be determined by the departmental representative of the area in which the course is offered. (3) Subsequent use of credits towards an associate or baccalaureate degree earned in correspondence courses or as a Special Student shall be determined by the Dean of the College in which the student desires to enroll.

The information expressed in this policy, if passed, should be disseminated among high school principals and counselors and publicized by correspondence course personnel and the Admissions Office.

E. B. VanOrmer, acting for J. M. Anderson, Chairman of the SENATE COMMITTEE ON RULES, presented the report which had been distributed with the agenda as Appendix "F" and moved that Part I be adopted with the addition of the words "on prior advice of the University Health Service" after the words "medical reasons". The motion was seconded. The recommended wording of Rule

K-6. In the event of absence from class for medical reasons, on prior advice of the University Health Service, the Director of the University Health Center shall issue an official excuse.

After discussion on this motion it was lost.

Mr. VanOrmer then presented Part 2 of the report which requested that Rule K-9 of the Regulations for Undergraduate Students be deleted. The motion was seconded. Mr. Whisler spoke against the motion and F. J. Simes supported Mr. Whisler but suggested that Rule K-9 be changed to read:

K-9. As a precaution against unfortunate incidents that might result from the unreported illness or extended absence of a student, the instructor is required to report such cases to the student's dean, who in turn will report to the Dean of Men or the Dean of Women.

The amendment was seconded and passed. The motion to delete Rule K-9 as amended

was lost. The report is on file in the office of the secretary.

Monroe Newman, Chairman of the SENATE COMMITTEE ON STUDENT AFFAIRS, presented the report which had been distributed with the agenda as Appendix "G", and moved adoption of the recommendation that:

The Senate of The Pennsylvania State University go on record as favoring the elimination of the provision that the National Defense Education Act requires that students borrowing money under its provision disclaim membership in organizations advocating violent overthrow of the Federal Government.

The motion was seconded. Mr. VanOrmer moved that the recommendation be amended to include

that we also favor eliminating the disclaimer oath from all parts of the NDEA of 1958 (Fellowships, Special Grants for Graduate Study), and that we also favor elimination of the same disclaimer from the NSF Act of 1950 (NSF Fellowship recipients must sign).

The motion was seconded and passed. The question on the main motion was passed as amended. The amended resolution is as follows:

The Committee therefore recommends that the Senate of The Pennsylvania State University go on record as favoring the elimination of the National Defense Education Act requiring that students borrowing money under its provision disclaim membership in organizations advocating violent overthrow of the Federal Government; favoring the elimination of the disclaimer oath from all parts of the NDEA of 1958; and favoring elimination of the same disclaimer from the NSF Act of 1950.

The report is on file in the office of the secretary.

NEW BUSINESS

Joseph Marin, Chairman of the SENATE COMMITTEE ON RESEARCH POLICY, stated that the Committee naturally wishes to be effective in making recommendations on encouraging and facilitating research in the University. The members of the Committee are trying to obtain suggestions from all possible sources and would appreciate ideas on what they might do in this area. For this purpose he asked that senators call him or send him a note by March 7, 1960 regarding things that the Research Committee should consider.

UNFINISHED BUSINESS

The President placed before the Senate the matter of Plan "C" which had been presented by the Rules Committee at the January 7, 1960 meeting of the Senate. This proposal to change Article I, Section 1 of the Constitution was printed on page 1003 of the official minutes. Mr. VanOrmer discussed the proposal and pointed out ways to explain the words "proportional representation." The question was called for and the motion was lost.

Because President Walker will be out of town on Thursday, March 3, 1960, it was moved by M. A. Farrell, seconded, and passed to hold the next regular meeting of the Senate on Thursday, March 10, 1960. The agenda will be distributed on February 25, 1960. The meeting adjourned at 5:40 p.m.

Robert G. Bernreuter
Secretary

Gift made to home

Tom H. Brown, Sr., a partner in a Greensburg insurance brokerage firm, class of 1924, has presented a check for \$2,450 for the proposed Mt. Nittany Home in State College.

It was Mr. Brown's wish to contribute to the financial advancement of faculty retirees and at the suggestion of President Eric A. Walker made the gift to the Home. Gordon H. Pritham, professor of physiological chemistry, accepted the check on behalf of the Home.

Meat shop hours

The new University meat shop, located in the new Meats Laboratory east of Beaver Stadium, will be open this semester on Thursday and Friday afternoons, 1-5 p.m.

Personnel matters

The following advancements in rank have been announced, effective Feb. 1:

It has also been announced that any promotions not yet processed will be announced at a later date.

To Professor

Eugene Ackerman, physics; Mary Brown Allgood, home equipment; Della J. Avery, child development and family relationships; Raymond G. D. Ayoub, mathematics; Andrew A. Benson, agricultural and biological chemistry; Joseph H. Britton, child development and family relationships; John L. Brown, Jr., engineering research; Ira V. Brown, American history; Charles L. Fergus, botany and plant pathology; Edwin R. Fitzgerald, physics; George M. Guthrie, psychology; Jacob J. Kaufman, economics.

Will E. Mason, economics; Edward L. Mattil, art education; Robert K. Murray, American history; Stuart Patton, dairy science; Ruth L. Pike, foods and nutrition; Neal Riemer, political science; E. Scott Roscoe, industrial engineering; Sidney Siegel, psychology; Ruth C. Silva, political science; Warren S. Smith, theatre arts; Leo H. Sommer, chemistry; Richard G. Stoner, physics; Walter H. Walters, theatre arts; Winston R. Weisman, history of art and architecture; James E. Wright, Jr., genetics; and George S. Zoretich, art.

To Associate Professor

Donald L. Ace, dairy science extension; Martha A. Adams, physical education; Joseph V. Alessandro, education; Robert V. Bauer, English literature; Leland L. Beik, marketing; Helen E. Bell, home management extension; George H. Berggren, agronomy extension; Richard E. Bland, engineering research; James R. Bloom, plant pathology; Raymond H. Brown, music; C. Wayne Burnham, geochemistry; H. Bruce Bylund, rural sociology.

Joseph R. Cardenuto, rural sociology, extension; Richard W. Cleveland, agronomy; Houston B. Couch, plant pathology; Harry E. Cowan, mathematics; Ruth E. Gates, clothing and textiles; James L. Gobble, animal husbandry; William H. Gotolski, civil engineering; Allen R. Gray, physical education; Robert W. Green, history; Paul Grun, genetics; Wilmer W. Hinrich, agronomy extension; Henry Hiz, mathematics; George R. Hudson, education; Bernard R. Jerman, English literature.

William J. Kjelgaard, agricultural engineering; Anton J. Kovar, botany; Joseph F. Krawiec, clothing and textiles research; Lillian B. Larson, clothing and textiles; Laurence H. Latman, geomorphology; August F. Lehman, engineering research; William J. Leiss, engineering research; Lawrence F. Marriott, soil technology; Anthony Mastro, accounting; Margaret B. Matson, sociology; Miriam E. McGrew, home art; J. Mitchell Morse, English composition; Gerald M. Moser, Romance languages; Nell A. Murphy, education.

Robert Nathans, physics; John B. Nesbitt, civil engineering; Charles J. Noll, olericulture; Reed T. Phalan, business law; Miles T. Pigott, engineering research; Robert M. Pockrass, journalism; William W. Pratt, physics; George N. Raney, mathematics; L. Jeanne Riebel, home management and home equipment; Radha R. Roy, physics; Erwin R. Schmerling, electrical engineering; James W. Shigley, agricultural and biological chemistry.

Darrell E. Walker, plant breeding; Lawrence L. Werboff, economics; Rolf G. Winter, physics; Arthur W. Woodward, physics; and Richard N. Work, physics.

To Assistant Professor

Harry M. Bobonich, chemistry; Dominick J. Calidonna, engineering; James M. Ciancio, engineering; Richard Cutts, English composition and English literature; William A. Damerst, English composition; Frank P. Defina, engineering; Russel N. DeVinney, English composition; Howard E. Dyché, engineering; Anthony J. Ferraro, electrical engineering; Charles Forney, Jr., civil engineering; Stuart H. Frost, art.

Edwin W. Gamble, Jr., music; Henry D. Gerhold, forestry; Paul J. Glantz, veterinary science; W. Arthur Glenn, engineering; George W. Gorsline, agronomy; Joseph D. Greenfield, engineering; Willard W. Gregory, chemistry; Michael C. Grenata, engineering; Edwin G. Griffith, engineering.

Walter L. Haldeman, agricultural extension; Chadwick C. Hansen, English literature; Laverne V. Henderson, home-community relationships; Christian B. Hewitt, English composition and English literature; Edward C. Hewitt, physics; Eugene F. Hilton, engineering.

William P. Kocher, engineering; John Kolesar, engineering; Joseph F. Linetty, engineering; Earl D. Longenecker, psychology; Guy

W. McKee, agronomy; Harrison T. Meserole, English; Robert A. Olsen, industrial engineering; Charles B. O'Toole, engineering; Duane R. Prosser, engineering; George F. Rieman, Jr., mathematics; William I. Roberts III, history; Floridon E. Robinson, engineering drawing.

Harvey W. Sarven, engineering; George K. Seacrist, English composition; Robert E. Sentz, engineering; Bruce Shobaken, art; Walter A. Sowa, engineering; Vernon L. Van Horn, Jr., engineering; Stanley Weintraub, English literature; Jeanne L. Wernitz, psychology; Walter F. Westerfeld, botany; and Alexander G. Wilcox, English composition.

To Senior Research Associate

Della M. Roy, geochemistry.

To Research Associate

Danuta M. Hiz, engineering; Ruth H. Smith, home economics; and Masayuki Kawahata, mineral industries.

To Associate County Agricultural Agent

Richard A. Bailey, Thomas B. Jurchak, Lee D. Kummer, Lawrence A. Lindstrom, J. Gray Mattern, Jr., John D. Naugle, Robert J. Rugaber, Guy Temple, and Gordon D. Walker.

To Associate Extension Home

Economist

Dorothy G. Bucher, Francesca D. Markle, and Nancy E. Thomas.

Disarmaments talks

A series of lunchtime discussions on disarmament, arranged by the Friends Peace Committee with the sponsorship of the Student Christian Association, will begin on Monday, Feb. 29 during the noon hour in the main lounge of the Helen Eakin Eisenhower Chapel.

Dr. Elton Atwater, professor of political science, will initiate the series with a talk on "The Prospects for the Geneva Disarmament Talks." For the past two years, Dr. Atwater has served as an observer at the Quaker United Nations Center.

Pasto in illustrated talk

Dr. Jerome K. Pasto, associate professor of agricultural economics, who spent two years with the Food and Agriculture Organization of the United Nations, will present an illustrated lecture on the economics of agricultural production in Asia and the Far East on Friday, Mar. 4, at 4:15 p.m. in Room 112 Buckhout.

Conference Mar. 4-6

A Conference on Christian Frontiers Overseas, sponsored by the University Christian Association, and of special interest to faculty members, will be held Friday through Sunday, Mar. 4-6.

The Rev. Louis Grier, Presbyterian fraternal worker in Japan, will speak on "The Validity of Christian Missions in Today's World," on Friday at 8 p.m. in the Chapel Lounge.

At 2 p.m., Saturday and again at 6 p.m. the Rev. John Rosengrant, director of the Presbyterian Institute of Overseas Churchmanship, will discuss the responsibility of churchmen overseas with industry and government.

Dr. Henry P. Van Dusen, president of Union Theological Seminary, will speak on "A New Mission for a New Age," at 4 p.m. Sunday in the Chapel Lounge.

Calendar

Next Week

Friday, Feb. 26

Center Stage production of "An Italian Straw Hat," 8 p.m.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. T. H. Van Angel, marine geologist, Scripps Institute of Oceanography, on "Research at Scripps on Modern Marine Sediments."

Saturday, Feb. 27

Varsity and freshman gymnastics, Rec Hall, 1 p.m. and 2 p.m.

Varsity and freshman wrestling, versus Pittsburgh, Rec Hall, 6:30 and 8:30 p.m.

Sunday, Feb. 28

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Rev. Theodore Braun.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. The Rev. Harold H. Viehman, secretary, Campus Christian Life, The Board of Christian Education of the Presbyterian Church in the U.S.A.

Discussion of Litchfield Report on Higher Education in Pennsylvania, led by Robert H. Holtzman, assistant professor of education, sponsored by the Centre County Laymen's League, 7:30 p.m., Helen Eakin Eisenhower Chapel.

Monday, Feb. 29

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Orvel A. Schmidt, professor of forestry, on "Impressions in Panama."

Disarmament discussion, sponsored by the Student Christian Association, 12 noon, Helen Eakin Eisenhower Chapel. First of a series, with Dr. Elton Atwater, professor of political science, on "The Prospects for the Geneva Disarmament Talks."

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A", James L. Martin on "Stress-Free Temperature Distributions."

Faculty meeting, College of Physical Education and Athletics, 7 p.m., Room 241 Rec Hall.

Home and Family Living Program, 8 p.m., Room 204 Home Economics. Mrs. C. C. Lee on "Food from China."

Tuesday, Mar. 1

Graduate School Lecture by Dr. Gerald W. Johnson, journalist, on "The Man Who Feels Left Behind," 8 p.m., Room 121 Sparks.

Home Economics Research Seminar, 12:30 p.m., dining room "A", Hetzel Union. Dr. Ruth E. Gates on "Clothing Attitudes, Beliefs, and Practices among Mobile and Non-mobile Married Homemakers."

Five O'Clock Theatre production of "The Turn in the Road" by Mary Elizabeth Yeager, senior in arts and letters, 5 p.m., Little Theatre, Old Main.

Wednesday, Mar. 2

Sigma Xi lecture by Dr. M. R. Fenske, director of the Petroleum Refining Laboratory, 8 p.m., Room 119 Osmond, on "Petroleum and World Energy."

Forestry Convocation, 11 a.m., Room 121 Sparks. Carrow T. Prout, Jr., woodland conservationist, Soil Conservation Service, on "Activities of the SCS in Relating Soils to the Production of Tree Crops."

Thursday, Mar. 3

Faculty meeting, College of the Liberal Arts, 4:15 p.m., Room 121 Sparks.

UCA Faculty Seminar Colloquy, 8 p.m., Helen Eakin Eisenhower Chapel. The Rev. John Whitney, on "Grace and Responsibility."

Players production of "Detective Story," by Sidney Kingsley, 8 p.m., Schwab Auditorium.

Friday, Mar. 4

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. E. H. Timothy Whitten, associate professor of geology, Northwestern University, on "Trend Surface Studies of Granitoid Rocks; Application and Significance."

Metallurgy Seminar, 1:15 p.m., Room 121 Mineral Industries. Dr. H. M. Davis, professor of chemical metallurgy, on "Gases, Glasses, and Steels."

Players Production of Sidney Kingsley's "Detective Story," 8 p.m., Schwab Auditorium. Center Stage Production of "An Italian Straw Hat," 8 p.m., Center Stage.

Illustrated lecture by Dr. Jerome K. Pasto, associate professor of agricultural economics, 4:15 p.m., Room 112 Buckhout, on "Economics of Agricultural Production in Underdeveloped Countries of Asia and the Far East."

UCA Conference on Christian Frontiers Overseas, with The Rev. Louis Grier speaking on "The Validity of Christian Missions in Today's World," 8 p.m., Chapel Lounge.

Next Month

Mar. 8—University Lecture Series, 8 p.m., Schwab. Cyril Northcote Parkinson.

Mar. 9—Artists Series, 8:30 p.m., Schwab. Benno Moiseiwitsch, pianist.

Mar. 9—UCA Series on "Theological Concepts," 8 p.m., The Chapel.

Mar. 11—Hugo Weisgall lecture on "20th Century Lyric Theatre," 8 p.m., HUB assembly room.

Mar. 13—University Lecture Series. Hermann J. Muller on "The Future Physical Development of Man," 8 p.m.

Mar. 15—AYI lecture by Dr. S. Tolansky, 4 p.m., Weaver.

Mar. 15—University Lecture Series, John Scott, Time magazine, on "Russia," 8 p.m.

Mar. 16—UCA Series on "Theological Concepts," 8 p.m., The Chapel.

Mar. 18—Artists Series. Cesare Siepi, 8:30 p.m., Schwab.

Mar. 18—NCAA Gymnastics tournament, 2 p.m. and 8 p.m.; also Mar. 19 at 8 p.m.

Mar. 20—University Lecture Series: Dr. Leslie A. White, 8 p.m.

Mar. 20—Blue Band Concert, 3 p.m., Schwab.

Mar. 22—AFI lecture by Dr. Graham Hoyle, 4 p.m., 100 Weaver.

Mar. 23—Liberal Arts lecture by Dr. Paul Pickrel, 8 p.m., 121 Sparks.

Mar. 27—Artists Series, Jose Limon and dance company, 8 p.m., Rec Hall.

Mar. 29—Lenten Concert by Meditation Chapel Choirs, 8 p.m., Chapel.

Home Ec seminar

Dr. Ruth E. Gates, acting head of the department of clothing and textiles, will be the speaker on the next Home Economics Research Seminar on Tuesday, Mar. 1 in dining room "A" of the Hetzel Union Building.

She will speak on "Clothing Attitudes, Beliefs, and Practices Among Mobile and Nonmobile Married Homemakers."

Sigma Xi lecture

"Petroleum and World Energy" will be the subject of a lecture by Dr. M. R. Fenske, head of the department of chemical engineering and director of the Petroleum Refining Laboratory, on Wednesday, Mar. 2 at 8 p.m. in Room 119 Osmond.

The lecture is sponsored by the Society of Sigma Xi.

Directory supplements

Departments may obtain copies of the new supplement to the Student Telephone Directory by applying through the office of their dean to the Supervisor of Telephone, 318 Old Main. The supplement contains the names of 2,000 students, including those who registered at University Park for the first time this semester and those for whom changes of telephone numbers and addresses have been received.

Television Broadcasts

WFBG-TV, CHANNEL 10

Saturday, Feb. 27—Reading Instruction in the Elementary School, Dr. Lyman C. Hunt, 9-9:30 a.m.

Monday, Feb. 29—Also Wednesday and Friday, course in "Personal Finance," 9-9:50 a.m. Lecturers: Arthur L. Williams and C. E. Woodring.

Monday, Feb. 29—Also Wednesday and Friday, news-interview program, "Postscript," with Marlowe D. Froke, 9:50-10:00 a.m. Guests: Grace M. Henderson; L. P. Greenhill; W. H. Hassler.

Monday, Feb. 29—Also each week day, the Farm, Home and Garden program, 12:30-1:00 p.m.

faculty BULLETIN

Vol. 47, No. 22

Feb. 26, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Penn State Collection.
Pattee Library.

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Penn State story

MAINTEINING contact with the many publics to which the University looks for counsel and support is a king-sized job and never was pressed with more zeal than it was during the past two years.

President Eric A. Walker is, of necessity, the pace-setter and he employs a wide variety of techniques—annual reports, commencement addresses, press statements and personal appearances—to keep the various publics informed of the University's objectives.

During 1958 and 1959, for example, he addressed unnumbered student, faculty and alumni groups, several press seminars, Pennsylvania Manufacturers Association, Pennsylvania School Administrators, Pennsylvania Society of Newspaper Editors, Williamsport Masonic Lodges, American Jewish Congress, League of Women Voters of Pennsylvania, American Association of University Women, McKeesport Rotary Club, Pennsylvania Forestry Association, and at least a dozen other organizations.

On campus, in addition to his day-in, day-out contact with students and teachers, he addressed many of the more than 300 conferences that attracted 60,000 visitors over a two-year period.

During the past year alone, some 78 groups came to the campus and toured the University's facilities under the direction of the newly-organized guide service. These visitors numbered more than 3,000.

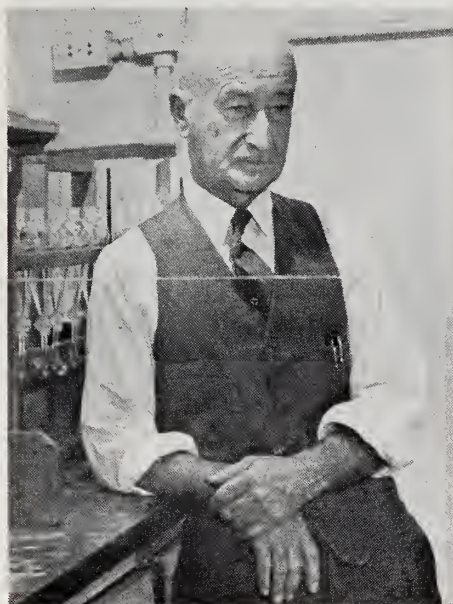
Newly-enlisted in the battle to represent University interests in their home districts were 2500 "advocates"

(Continued on page three)

News in Brief

• **THOMAS GIFT:** Dr. Walter Thomas, who died on Feb. 2, left the bulk of an estate valued at more than \$100,000 to the University to be invested and the interest used for the establishment of scholarships and fellowships in plant nutrition.

A faculty member for 40 years until his retirement in 1950, Dr. Thomas was



internationally known for his research in plant physiology and in 1943 was given an honorary life membership in the American Society of Plant Physiologists in recognition of his long and distinguished service. Among other honors, he was elected to the Court of Governors of the University of Wales and was a member of three honor societies.

One of Dr. Thomas's principal contributions to plant physiology was the development along with Dr. William Frear who was vice-director of the Ag Experiment Station, of "foliar diagnosis" by which the leaf of a plant was studied to indicate the condition of the plant itself.

A native of Wales, Dr. Thomas went to Canada after graduation from the University of Wales in 1905. He joined the Penn State staff in 1910.

Dr. Thomas, who lived at the University Club, never married and had no living brothers or sisters. Since his retirement he has lived in Florida during the winter months and he died there.

• **STUDENTS:** Enrollment of undergraduate, graduate, and special students at University Park and other campuses and centers increased by 431 for the present semester over that of Spring Semester, 1959, official figures provided by the Office of the Registrar show.

Total enrollment is 19,109, compared

with 18,678 last year and with 20,337 for the Fall Semester, 1959. Enrollment is customarily lower in the Spring Semester.

Enrollment at University Park, including all types of students, is 14,242, an increase of 394 from last year and is 4,867 at other campuses and centers, an increase of 37.

Full-time undergraduate enrollment at University Park is 11,945 and elsewhere 3,035, for a total of 14,980. Part-time undergraduate enrollment at all places totals 1,825. Graduate enrollment at University Park is 1,980 and at all other places 324, for a total of 2,304.

The College of Engineering and Architecture continues to show the largest undergraduate enrollment at University Park, 2,367, and the College of Education leads in graduate enrollment, with 450.

Complete enrollment statistics will be given in next week's issue of the Faculty Bulletin.

• **MEDICAL PLAN:** Details of a Major Medical Insurance Plan for University employees who are members of the present Hospital-Surgical Insurance Plan will be given to all employees about Mar. 15. A. E. Diem, vice-president for business administration, has announced.

It is expected that on that date, or within a few days, complete information in the form of an explanatory booklet will be given to faculty and staff members.

If the proposed plan is accepted by 75 per cent of the present employees, the plan will become effective May 1, 1960.

The plan is designed to pay substantial amounts toward the heavy expenses resulting from serious accidental injuries and sickness that involve prolonged illness and medical care.

• **MULLER LECTURE:** Dr. Herman J. Muller, professor of zoology at Indiana University will speak on "The Future Physical Development of Man" in the next presentation by the University Lecture Series.

The lecture will be given on Sunday, Mar. 13, 8 p.m. in Schwab Auditorium. The current series on "The Origin and Development of Man and His Culture" will conclude on Mar. 20 when Dr. Leslie A. White, professor of anthropology at the University of Michigan, will speak on "The Future Development of Man's Culture."

Dr. Muller holds many honors in his field, including membership in the Royal Swedish Academy of Sciences, Nobel Laureate in Physiology and Medicine in 1946, winner of the Kember

(Continued on page three)

Shaw Review broadens scope

SINCE there is no way to treat any literary figure in a vacuum, let alone one like Bernard Shaw, *The Shaw Review* has recently been opening its pages not only to articles on Shaw or his plays but about other writers who might have had an influence on, or been influenced by, the great Irish dramatist. A formal announcement of the policy change will appear in the May issue.

So reports Dr. Stanley Weintraub, assistant professor of English literature and editor of the journal.

"To reflect truly the scope of Shaw's activities," he says, "you have to consider him not only as a writer for the stage but also as a politician, as an economist, as a critic, and as a religious thinker—to name just a few facets of his work and thought.

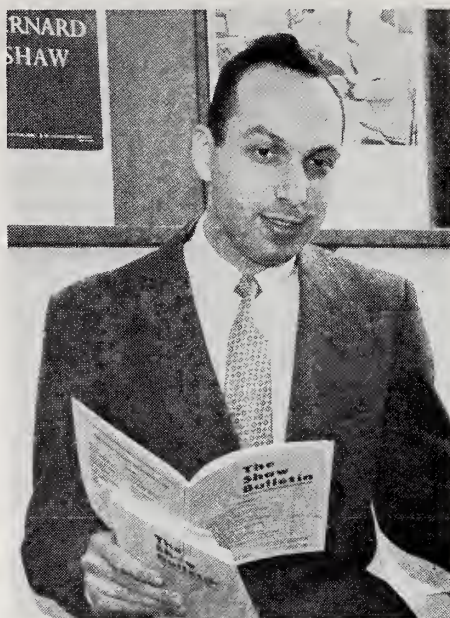
"Such persons as H. G. Wells, Max Beerbohm and Sean O'Casey can be considered logically in a periodical which intends to concern itself with all the ramifications of Shaw."

This expansion of *The Review's* scope is another step in its metamorphosis since Weintraub became editor in 1956. Toward the end of the following year, *The Pennsylvania State University Press* became co-publisher, with the Shaw Society of America. It was the support and facilities of the University Press that enabled *The Shaw Review* to adopt a handsome, redesigned format in 1959, when the name of the publication was changed from *Bulletin*, with its narrow connotation, to *Review*, indicating its redefined scope and purpose. The facilities of the University's Press also have helped effect economies of production and distribution, as *The Review* gains increased acceptance among scholars here and abroad.

There is some competition for *The Review's* audience in the U. S. and around the world, but the rivalry is more apparent than real, and there is little duplication of function, Weintraub says. *The Shaw Society* of London publishes *The Shavian*, which contains scholarly articles as well as much informal data about Society meetings and activities of its members, while *The Shaw Review* is entirely academic in content and perspective.

Through *The Shaw Review*, Penn State has become a center of attention in the Shaw field.

"But we have very little original or primary Shaw material for advanced Penn State students to work with yet," Dr. Weintraub admits, "as other, wealthier institutions have been able to buy up letters, manuscripts, rare books, and other documents which have be-



Dr. Stanley Weintraub

come available from private collectors, Shaw's correspondents and associates, and from Shaw's estate. As a result of a lifetime of writing—and Shaw wrote right up to his death at 94—there are obviously many other materials around.

"The Pattee Library here has acquired some unusual and important books, manuscripts and photostats concerning Shaw, partly through the interest and efforts of the curator of Rare Books, Charles W. Mann, and partly through the generosity of people who have sent such materials to me. I generally pass them along to the Library so that they will be available for students in our new course on Shaw as well as other courses in which Shaw figures prominently, and as raw material for research by graduate students. Thus *The Review* is helping us to acquire a modest Shaw collection at Penn State."

In addition to Weintraub, other faculty members have taken a lively interest in Shaw, Warren S. Smith, professor of Theatre Arts, and Robert R. Reed, Jr., associate professor of English Composition, among them. Smith has an amusing article—"The Bishop, the Dancer, and Bernard Shaw"—in the current issue, and Reed previously contributed an article on Ibsen's *Peer Gynt*. Smith, incidentally, is now completing an edition of Shaw's religious lectures and speeches, which he hopes will soon appear as a book.

"The reaction to downgrade Shaw which came shortly after his death—this is not unnatural by the way—is gradually being overcome," Weintraub says. "More and more scholars will turn

to Shaw and *The Review* will be a logical outlet for their studies."

Apart from *The Shaw Review*, Dr. Weintraub is helping bring interest in Shaw to a wider audience via off-campus lecturing and articles in such academic publications as *Texas Studies in Literature and Language* and *Educational Theatre Journal*, and more popular magazines as *Esquire* and *Theatre Arts*. It is his hope to publish in *The Review* more rare documents and other materials concerning Shaw and his milieu not ordinarily available to scholars, even through libraries abroad as well as here, thus performing another scholarly service. Another hope of the editor is wider dissemination overseas, particularly in countries so fond of Shaw's works as Germany and those behind the Iron Curtain. As it stands now, *The Review* is known in only a few cities in Europe, Africa and Australia, although circulation in this country steadily increases.

Travel information

Individuals and organizations inviting persons to the campus for meetings or speeches are urged to provide travel information to and from University Park to those persons to avoid inconvenience and delay and perhaps unpleasant experiences.

Because of the constantly changing schedules of air lines, trains, and buses, up-to-date information is essential, reminds M. Josephine Groesbeck, travel coordinator, who will provide such information on request at 5-7571.

Roy to speak

Dr. Rustum Roy will speak on "Some Observations on Laboratories in The Soviet Union and Elsewhere" at the March meeting of Phi Lambda Upsilon, honorary chemical society. The meeting is open to anyone and will be held on March 8, 1960 at 8:00 p.m., in room 214 Boucke.

Disarmament talk

Dr. Alfred E. Pundt, professor of European history, will speak on "Lessons from Past Disarmament Agreements" at a lunchtime meeting, from 12 to 1, Monday, March 7, in the Main Lounge of the Helen Eakin Eisenhower Chapel.

This discussion is a part of a series arranged by the Peace Committee of the Friends Meeting and the Student Christian Association.

Coffee will be served and a light lunch will be available for those who cannot bring their own.

Two weeks later, on March 21, Dr. Neal Riemer will speak on "The Ambiguities of the Moral Issues of Disarmament."

News in Brief—

(Continued from page one)

Genetics Award in 1955, and many others. He was president of the Eighth International Congress of Genetics in 1948.

His books are *The Mechanism of Mendelian Heredity*, *Out of the Night: A Biologist's View of the Future*, and *Genetics, Medicine and Man*. He has also written some 200 articles on biological subjects.

• **ARTISTS SERIES:** Benno Moiseiwitsch, renowned pianist, will present a varied program, including works of Schubert, Schumann, Rachmaninoff, Chopin, Stravinsky, Palmgren and Medtner, in the next Artists Series presentation on Wednesday, Mar. 9 at 8:30 p.m. in Schwab Auditorium.

Tickets for the program will go on sale to the public on Monday, Mar. 7 at the HUB desk.

• **FRESHMEN:** Cited for outstanding scholarship in basic courses in mathematics in the Fall Semester were 49 freshmen, who were presented honors books by Pi Mu Epsilon, mathematics honor society, this week.

The books were made available by HRB-Singer, Inc.

• **A SERIES** of 36 photos representing the best in Architectural Photography, is currently on display in the HUB art gallery and will remain until Mar. 17.

Being circulated by the Smithsonian Institution Traveling Exhibition Service, the exhibit is made up of photos submitted to the national competition sponsored cooperatively by the American Institute of Architects and Architectural Photographers' Association.

• **ENTRANCE ROAD**, which was closed near Park Ave. and the area near the Flower Gardens is now open, although the surface is in poor condition. Traffic can move from Park Ave. to Eastview Terrace. The south entrance to the road is closed, however, because of construction of the cloverleaf on Route 45.

• **EXAMS:** Written Foreign Language Examinations will be held Monday, March 7, at 7 p.m.; those in German in 119 Osmond, in French and Spanish in 10 Sparks, and those in English in 205 Sparks. The conflict examination in French and Spanish will be held on Tuesday, March 8, at 7 p.m. in 2 Sparks.

Items of Interest

• Elected or Appointed

C. O. Williams, President's office, chairman of an evaluation committee for the program of Mt. Lebanon High School, Pittsburgh.

R. L. Alexander, art and architecture, elected director for The Society of Architectural Historians.

Viktor Lowenfeld, art education, selected to the Board of the "Federation Internationale pour l'Education Artistique," in Basel, Switzerland.

Winona Morgan, child development and family relationships, an official delegate for the American Home Economics Association Section on Child Development and Family Relations to the 1960 White House Conference on Children and Youth, Mar. 27-Apr. 2.

• Lectures and Talks

Elton Atwater, political science, a talk titled "New Dimensions at the United Nations" before the students at Wyomissing Campus; also on "The United Nations and Economic Development" at Lock Haven State College.

R. R. Kountz, sanitary engineering, a talk on "Principles of Financial Planning," at a training course for South American engineers and government advisors to be held Mar. 28-April 30.

• Articles and Papers

Bill Hanson, art, an article, "Child Art—Awareness and Communication," in the January issue of School Arts magazine.

R. S. Farwell, Jr., industrial engineering, an article titled "Advising Engineering Students" in the February issue, Journal of Engineering Education.

W. A. Weyl, mineral industries, two chapters to the book, "Rheology—Theory and Applications, Volume 3," edited by F. E. Eirich, published by Academic Press.

M. A. Williamson, engineering and architecture, an article in the February issue of Industrial Science and Engineering on "Handling the Expense Account."

Joseph Marin, engineering mechanics, a paper on the mechanics of creep and combined states of stress at an international colloquium on Creep in Structures in the summer, at Stanford University,

C. J. Schaefer, industrial education, co-author of an article titled "Guides for Establishing Technical Institutes" in the February issue of "School Shop."

B. W. Niebel, industrial engineering, a paper in the January issue of "Ingenieria," official technical publication of the National University of Mexico, on the subject, "Industrial Engineering Techniques in the Design of New Products."

Penn State—

(Continued from page one)

chosen from among county agricultural agents, district representatives (Continuing Education), directors of Commonwealth Campuses, alumni and friends, and commissioned to spread the word of Penn State's more pressing needs throughout the Commonwealth.

The "Penn State Advocates" and members of the House and Senate in the State Legislature received from the campus at regular intervals copies of the President's speeches, salient news releases, significant reports, and countless other pamphlets and bulletins designed to keep the recipients fully informed of the University's progress.

In addition, press, radio and television were employed on a broad scale to bring this same information to the attention of the general public, thereby bolstering the less obvious efforts of those advocates and others engaged in an "all out" effort to sell Penn State.

Four projects especially designed to carry the Penn State Story to these multiple publics were:

(1) A special issue of "The Penn Stater" which emphasized University services and which went to 60,000 alumni, legislators, advocates, and newspaper editors.

(2) A 15-minute sound film titled "Introduction to Penn State" which already has been projected by a dozen television stations, and which is used additionally as a prelude to campus tours, and at meetings of alumni, schoolmen, and service organizations.

(3) A mimeographed report detailing specific services rendered the people of each county and distributed widely throughout those counties.

(4) Completion of the first 16 dedicatory sessions through which it is planned ultimately to bring leaders from the 67 counties to the campus to attend exercises at which county names are conferred on living units of the University's residence halls.

Williams to talk

The Rev. Preston N. Williams, acting University chaplain, will speak on "Revelation and Reason" on Thursday, Mar. 10 at 8 p.m. in the Helen Eakin Eisenhower Chapel in the second of three lectures arranged by the University Christian Association on the theme, "Is Christianity Intellectually Defensible?"

A third lecture, by Sam N. Gibson, executive director of the University Christian Association, will precede a colloquy on Mar. 26 at which Dr. Julian Hartt, head of the department of religion, Yale University, will be the principal lecturer.

Calendar

Next Week

Friday, Mar. 4

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. E. H. Timothy Whitten, associate professor of geology, Northwestern University, on "Trend Surface Studies of Granitoid Rocks; Application and Significance."

Metallurgy Seminar, 1:15 p.m., Room 121 Mineral Industries. Dr. H. M. Davis, professor of chemical metallurgy, on "Gases, Glasses, and Steels."

Players Production of Sidney Kingsley's "Detective Story," 8 p.m., Schwab Auditorium. Center Stage Production of "An Italian Straw Hat," 8 p.m., Center Stage.

Illustrated lecture by Dr. Jerome K. Pasto, associate professor of agricultural economics, 4:15 p.m., Room 112 Buckhout, on "Economics of Agricultural Production in Underdeveloped Countries of Asia and the Far East."

UCA Conference on Christian Frontiers Overseas, with The Rev. Louis Grier speaking on "The Validity of Christian Missions in Today's World," 8 p.m., Chapel Lounge.

Saturday, Mar. 5

Players Show, "Detective Story," 8 p.m., Schwab Auditorium.
Center Stage show, "An Italian Straw Hat," 8 p.m.

Sunday, Mar. 6

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Henry Pitney Van Dusen, president, Union Theological Seminary.

Monday, Mar. 7

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dorothy J. Lipp, dean of women.

Engineering Mechanics Seminar 4:15 p.m., Room 203 Engineering "A". Dr. M. G. Sharma, on "Thermal Stresses Caused by Two-Dimensional Temperature Distribution."

Tuesday, Mar. 8

University Lecture Series, 8 p.m., Schwab Auditorium, Dr. Cyril Northcote Parkinson, noted British author, on "Parkinson's Law."

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main.

Geophysics and Geochemistry Seminar, 3:15 p.m., Room 121 Mineral Industries. Christopher Crowe, assistant professor of geophysics, on "Motions in the Earth's Core."

Wednesday, Mar. 9

Artists Series program by pianist Benno Moiseiwitsch, 8:30 p.m., Schwab Auditorium.
Forestry Convocation, 11 a.m., Room 121 Sparks. Charles H. Hoffman, development engineer, Product Application Section, Koppers Co., Inc.

Thursday, Mar. 10

Senate meeting, 4:15 p.m., Room 121 Sparks.
Graduate Mining Seminar, 3:20 p.m., Room 24 Mineral Industries. Sathit Tandanand on "Atmospheric Control."

College of Home Economics faculty meeting, 4:15 p.m., Room 14 Home Economics.

UCA series on "Is Christianity Intellectually Defensible," 8 p.m., Helen Eakin Eisenhower Chapel. The Rev. Preston N. Williams, acting chaplain, on "Revelation and Reason."

Mathematics Colloquium, 3:15 p.m., Room 12 Sparks. William Harkness on "Properties of the Normal Distribution."

Friday, Mar. 11

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. William T. Reid, assistant Technical Director, Battelle Memorial Institute, on "The Flow Properties of Coal Ash Slag."

Fluid Mechanics Seminar, 4:15 p.m., Room 211 Mechanical Engineering. Dr. Leo Steg and Walter Warren, Space Science Laboratory, General Electric Co. on "Plasma Flow Generation in the Arc Driven Tunnel."

Metallurgy Seminar, 1:15 p.m., Room 121 Mineral Industries. Dr. W. M. McKewan, U. S. Steel Corporation, on "Reduction of Iron Oxides."

Center Stage production of "An Italian Straw Hat," 8 p.m.

Hugo Weisgal lecture on "Twentieth Century Lyric Theatre: Revolution and Reaction," 8 p.m., HUB Assembly Room.

Next Month

Mar. 13—University Lecture Series. Hermann J. Muller on "The Future Physical Development of Man," 8 p.m.

Mar. 15—AYI lecture by Dr. S. Tolansky, 4 p.m., Weaver.

Mar. 15—University Lecture Series, John Scott, Time magazine, on "Russia," 8 p.m.

Mar. 16—UCA Series on "Theological Concepts," 8 p.m., The Chapel.

Mar. 18—Artists Series. Cesare Siepi, 8:30 p.m. Schwab.

Mar. 18—NCAA Gymnastics tournament, 2 p.m. and 8 p.m.; also Mar. 19 at 8 p.m.

Mar. 20—University Lecture Series: Dr. Leslie A. White, 8 p.m.

Mar. 20—Blue Band Concert, 3 p.m., Schwab.

Mar. 22—AFI lecture by Dr. Graham Hoyle, 4 p.m., 100 Weaver.

Mar. 23—Liberal Arts lecture by Dr. Paul Pickrel, 8 p.m., 121 Sparks.

Mar. 27—Artists Series. Jose Limon and dance company, 8 p.m., Rec Hall.

Mar. 29—Lenten Concert by Meditation Chapel Choirs, 8 p.m., Chapel.

Mar. 30—University Lecture Series. Paul Sears, Yale University, 8 p.m.

Mar. 31—Thespian Show, 8:30 p.m., Also April 1 and 2.

April 2—UCA Forum. Dr. William Muehl, 8:15 p.m. Chapel Lounge.

Parkinson lecture

Tickets for the lecture by C. Northcote Parkinson on the University Lecture Series will be on sale, at \$1.25, to the general public at 9 a.m. Monday, Mar. 7 at the HUB desk.

The lecture is scheduled for Tuesday, Mar. 8 at 8 p.m. in Schwab Auditorium.

Author of "Parkinson's Law" and more recently "The Law and the Profits," Parkinson is a noted British author not only of satire and humor but of serious books on economic, naval and military history. He also wrote "The Evolution of Political Thought."

Educated at Emmanuel College, Cambridge, he took further study at the Royal Naval College, Greenwich, and received his doctorate at King's College, University of London. He has taught at the Royal Naval College at Dartmouth and at the University of Liverpool. He is now Raffles Professor of History at the University of Malaya.

Television Broadcasts

WFBG-TV, CHANNEL 10

Saturday, Mar. 6—Reading Instruction in the Elementary School, Dr. Lyman C. Hunt, 9-9:30 a.m.

Sunday, Mar. 6—"The Soviet Challenge," 5 p.m. with regular panelist, Dr. V. V. Aspaturian, and guests Thomas Wagner and Harry Hutton.

Monday, Mar. 7—Also Wednesday and Friday, course in "Personal Finance," 9-9:50 a.m. Lecturers: C. E. Woodring and R. M. Colwell.

Monday, Mar. 7—Also Wednesday and Friday, news-interview program, "Postscript," with Marlowe D. Froke, 9:50-10:00 a.m. Guests: Leonard Julius; Robert E. Clark; and Richard R. Renner.

Monday, Mar. 7—Also each week day, the Farm, Home and Garden program, 12:30-1:00 p.m. Guests: Carolyn Quarles, Les Burdette, Russell Seward, June Kohr, and Paul Reber.

Thursday, Mar. 10—TV Guidelines (Channel 4)—Charles Mann and Mrs. Wayne Bloomquist, guests.

faculty BULLETIN

Vol. 47, No. 23

Mar. 4, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Hairs. Mrs. T. I.
Cent Library

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Personnel matters

Dr. Satyabrata and **Dr. Friedemann Freund** have been named research associates in the department of ceramic technology. Ray is a graduate of the University of Calcutta, India, with a doctorate from Lehigh in 1957 and has been at the University of Missouri and University of Oklahoma. Freund received his doctorate at the University of Marburg, Germany.

Edward S. Kenney, formerly health physicist and radiological safety officer, has been named assistant to the director of the Reactor Facility and research associate in the department of nuclear engineering.

Dr. W. Conrad Fernelius, professor of chemistry, is serving as visiting professor of chemistry at the University of Cairo this semester after being awarded a U.S. Educational Exchange Grant under the provisions of the Smith-Mundt Act.

Dr. Clare A. Becker, professor of agricultural business management, is on leave this semester to take charge of research to develop data sources and analysis techniques in retail meat prices and distribution margins for the U. S. Department of Agriculture.

Dr. Norman G. Hawkins, who is the new director of research and member of the executive board of the Hollidaysburg State Hospital, will also serve as associate professor of sociology, teaching graduate work in sociology. He is a graduate of the University of Washington where he also obtained advanced degrees, and has a bachelor of education degree from Pacific Lutheran College. He has been on the faculty of the University of Texas since 1957.

News in Brief



Weyl

Curry

➤ **HONOR:** Dr. Haskell B. Curry, professor of mathematics, and Dr. Wolde-mar A. Weyl, research professor of mineral sciences, have been named Evan Pugh Research Professors, effective Feb. 1.

The Professorships have been established to recognize outstanding research by members of the faculty and provide support for the continuation of this research.

Dr. Curry plans to continue his investigations into the fundamental aspects of mathematical logic, especially in the field of combinatory logic.

Dr. Weyl has conducted extensive research in the fields of solid state chemistry and physics, particularly with surface and high-temperature chemistry of metal oxides, glasses, and clays; semiconductors and defects in crystals and glasses; pigments, fluorescent materials; radiation indicators, and mineral synthesis.

The professorships were authorized by the Board of Trustees and honor the first president of the University, who was an outstanding research scientist.

➤ **PAPER:** The third in a series of papers on the topic, "Is Christianity Intellectually Defensible," sponsored by the University Christian Association, will be given on Thursday, Mar. 17 at 8 p.m. in the Helen Eakin Eisenhower Chapel by Sam N. Gibson, executive director of UCA.

He will speak on "The Problem of Religious Language: Myth and History."

The three papers are leading up to a colloquy on Mar. 26, at which Dr. Julian Hartt, head of the department of religion at Yale University, will lecture. Panels and discussions will also be part of this program.

➤ **OCEANS:** Dr. Williams S. von Arx, professor of oceanography at Massachusetts Institute of Technology, who is currently serving as distinguished visiting professor of meteorology, will present a lecture of interest to the general

public on Wednesday, Mar. 16, at 8 p.m. in Room 119 Osmond.

His title will be, "On the Origin of the Oceans."

Dr. von Arx is also giving lectures of technical nature on the oceans, the first of which was given yesterday. He will speak on "Heat Balance of the Oceans" on Monday, Mar. 14 at 10 a.m. in Room 317 Willard and on "Barotropic Oceanography," Thursday, Mar. 17 at 3 p.m. in the Mineral Industries Auditorium.

➤ **FORUM:** Dr. J. Neal Hughley, professor of economics, North Carolina College and active in Christian social action agencies in the South, will be the next speaker in the current University Christian Association Forum Series, sponsored by the Faculty Committee and the SCA.

Dr. Hughley will speak tomorrow night at 8:15 p.m. in the Helen Eakin Eisenhower Chapel on the subject, "The Christian Faith and the Capitalist-Socialist Controversy."

➤ **BASSO:** Cesare Siepi, renowned for his performances as Don Giovanni, Boris Godounov, Figaro, and in Don Carlo as King Philip, and leading basso of the Metropolitan Opera, will present a concert on the Artists Series on Friday, Mar. 18 at 8:30 p.m. in Schwab Auditorium.

Tickets for the performance will go on sale to the general public Wednesday, Mar. 16 at 9 a.m. at the HUB desk.

Siepi's program will include Osmin's aria from Mozart's "The Abduction from the Seraglio" and Mephisto's Sere-nade from Berlioz's "La Damnation de Faust."

➤ **MAN:** The current University Lecture Series on "The Origin and Development of Man and his Culture" will continue on Sunday, Mar. 13 at 8 p.m. with a lecture by Dr. Herman J. Muller, Indiana University, on "The Future Development of Man." The lecture will be held in Schwab Auditorium.

Concluding lecture in this series will be given by Dr. Leslie A. White, professor of anthropology at the University of Michigan on Mar. 20.

➤ **HUB SPECIALS:** The Hetzel Union Building Terrace Room will observe its fifth birthday on Mar. 15 and also St. Patrick's Day on Mar. 17 with special menus and decorations at dinner.

➤ **POETRY:** Pivot, the highly successful magazine of poetry published yearly by students of the Poetry Workshop conducted by Joseph L. Grucci, associate professor of English composition,

(Continued on page four)

Registrar Reports on Total Campus Enrollment for Spring Semester, 1959 - 1960

	1 Sem	2 Sem	3 Sem	4 Sem	5 Sem	6 Sem	7 Sem	8 Sem	Total
AGRICULTURE									
ABCh	—	10	—	9	—	7	1	2	29
AERS	—	7	—	25	1	14	3	21	71
AgEd	1	25	3	28	6	52	12	32	159
AgJ	—	3	—	—	—	—	—	1	4
Agro	—	2	1	6	1	4	—	2	16
AH	1	15	2	22	3	20	3	33	99
Bact	—	13	2	6	—	6	—	9	36
BPP	—	—	—	4	1	2	1	2	10
Consv	—	—	1	3	—	1	—	4	9
DSc	—	26	—	10	3	33	3	16	92
FRD	—	—	—	—	—	1	—	—	1
GnAg	—	14	1	6	2	4	1	4	32
Hort	—	12	3	17	4	14	4	10	64
LArch	—	5	2	15	2	12	4	15	55
MedT	—	25	2	16	—	18	1	5	67
PH	—	2	—	2	—	1	1	2	8
PV	2	29	1	19	1	14	—	—	66
ZE	2	11	—	9	—	19	—	24	65
2AG	3	22	2	4	1	—	—	—	32
School of Forestry									
For	—	1	2	57	3	54	5	69	191
WU	—	1	—	6	—	6	3	2	18
Total	9	223	23	264	28	282	42	253	1124
BUSINESS ADMINISTRATION									
BA	19	271	17	290	63	354	53	407	1474
Total	19	271	17	290	63	354	53	407	1474
CHEMISTRY & PHYSICS									
ChE	5	102	3	55	3	49	2	53	272
Chem	3	70	3	40	5	22	7	29	179
Phys	5	69	3	50	10	31	10	28	206
PM	4	50	1	25	2	32	—	16	130
Sc	—	8	1	7	2	11	1	12	42
Total	17	299	11	177	22	145	20	138	829
EDUCATION									
AEd	1	23	2	23	4	35	1	19	108
EEd	18	227	15	231	17	189	28	160	885
IArt	1	11	2	12	4	18	5	19	72
MusEd	1	20	2	17	5	22	3	26	96
Psy	4	61	4	66	20	70	15	82	322
RehEd	—	4	—	3	1	3	2	2	15
SecEd	7	133	12	172	30	176	30	148	708
VIEd	—	—	—	2	1	1	4	2	10
Total	32	479	37	526	82	514	88	458	2216
ENGINEERING & ARCHITECTURE									
AeroE	—	1	3	55	6	47	7	53	172
AgE	1	15	—	18	—	13	1	10	58
Arch	—	54	2	18	4	21	—	*36	135
AE	—	16	—	8	—	9	1	**24	58
CE	—	—	3	65	13	54	8	74	217
EE	—	2	9	158	44	198	42	160	613
EMch	—	—	—	15	1	3	1	3	23
Engr	15	527	14	5	—	—	—	—	561
ESc	—	—	—	21	1	19	1	17	59
IE	—	—	1	35	3	39	11	75	164
ME	—	—	4	76	12	88	22	99	301
SE	—	—	—	—	—	2	1	3	6
Total	16	615	36	474	84	493	95	554	2367
HOME ECONOMICS									
HEc	1	134	2	124	6	135	11	94	507
HA	1	—	—	20	3	19	5	18	66
2HFS	—	13	1	—	—	—	—	—	14
Total	2	147	3	144	9	154	16	112	587
THE LIBERAL ARTS									
AL	16	357	29	328	48	227	47	270	1372
LMR	—	13	2	7	1	12	3	21	59
School of The Arts									
AArt	—	35	2	21	4	14	3	14	93
Arts	2	13	1	10	—	9	3	17	55
School of Journalism									
Journ	3	57	3	45	9	46	7	42	212
Total	21	475	37	411	62	358	63	364	1791
MINERAL INDUSTRIES									
CerT	—	12	1	12	—	10	—	11	46
FT	—	12	1	6	—	11	—	8	38
Geog	—	2	1	6	2	4	—	8	23
G&G	—	9	—	9	1	12	—	6	37
G&M	1	26	1	10	—	13	4	12	67
Metal	1	32	4	34	1	20	1	26	119
Meteo	—	14	—	11	5	13	7	36	86
MnEc	—	2	—	2	1	8	—	4	17
MPE	—	2	—	3	—	2	—	7	14
Mnge	—	7	—	3	1	8	1	12	32
PNGE	—	7	2	16	2	8	1	12	48
Total	2	125	10	112	13	109	14	142	527

Registrar Reports on Total Campus Enrollment for Spring Semester, 1959 - 1960

	1 Sem	2 Sem	3 Sem	4 Sem	5 Sem	6 Sem	7 Sem	8 Sem	Total
Physical Education & Athletics									
PhEd	5	59	5	54	9	53	10	62	257
RcEd	—	6	—	8	3	10	3	12	42
Total	5	65	5	62	12	63	13	74	299
Division of Counseling									
Counseling	6	336	41	304	21	54	5	1	768
TOTAL									
UNDERGRADUATES	129	3035	220	2764	396	2526	409	2503	11982

	Freshmen		Sophomores		Juniors		Seniors		Graduate		Special		Totals		T
	M	W	M	W	M	W	M	W	M	W	M	W	M	W	T
U. P. Campus															
Full-time	2001	1162	1978	991	2069	827	2212	655	597	108	33	17	8890	3760	12650
Part-time	1	—	9	6	11	15	30	15	1016	259	95	135	1162	430	1592
Total on Campus	2002	1162	1987	997	2080	842	2242	670	1613	367	128	152	10052	4190	14242

Other Campuses and Centers (See summary below)

Full-time (4-Yr)	1005	290	369	67	14	1	2	—	—	—	14	15	1404	373	1777
Full-time (2-Yr)	684	11	548	10	1	—	—	—	—	—	4	—	1237	21	1258
Part-time (4-Yr)	5	2	25	2	1	—	1	—	—	—	7	15	39	19	58
Part-time (2-Yr)	18	—	33	—	—	—	—	—	—	—	1	—	52	—	52
Part-time															
Ext. Classes	—	—	—	—	—	—	—	—	219	105	686	712	905	817	1722
Total	1712	303	975	79	16	1	3	—	219	105	712	742	3637	1230	4867

TOTAL ON AND OFF CAMPUS

3714	1465	2962	1076	2096	843	2245	670	1832	472	840	894	13689	5420
5179		4038		2939		2915		2304		1734		19109	

Summary of Off-Campus Enrollment Spring Semester, 1959-60

	Four-Year		Special		Two-Year		
	Full-Time	Part-time	Full-Time	Part-Time	Full-Time	Part-Time	
Centers							
Allentown	—	—	—	—	86	6	92
Altoona	219	1	5	9	119	10	363
Behrend	176	8	—	2	65	—	251
DuBois	104	1	5	1	57	1	169
Hazleton	145	1	—	—	75	2	223
McKeesport	98	1	1	1	168	15	284
New Castle	—	—	—	—	43	1	44
New Kensington	—	—	—	—	89	1	90
Ogontz	750	23	6	3	79	3	864
Pottsville	152	1	12	7	37	—	209
Scranton	—	—	—	—	76	1	77
Wilkes-Barre	—	—	2	—	136	2	140
Wyomissing	—	—	1	—	96	6	103
York	—	—	1	—	128	3	132
Mont Alto	104	—	—	—	—	—	104
Total Off Campus	1748	36	33	23	1254	51	3145

Recapitulation

	M	W	Total
U. P. Campus			
Full-time undergrad.	8293	3652	11945
Part-time undergrad.	146	171	317
Total undergrad.	8439	3823	12262
Full-time graduate	597	108	705
Part-time graduate	1016	259	1275
Total graduate	1613	367	1980
Total Main Campus	10052	4190	14242
Other Campuses and Centers			
Full-time undergrad.	2641	394	3035
Part-time undergrad.	91	19	110
Part-time Cont. Ed.			
Undergrad.	686	712	1398
Graduate	219	105	324
Total Off Campus	3637	1230	4867
All Campuses			
Undergraduates	11857	4948	16805
Graduates	1832	472	2304
Total	13689	5420	19109

Graduate and Special Students by Colleges

	Graduate		Special	
	M	W	M	W
Agriculture	267	21	9	9
Business Admin.	75	1	3	13
Chem. and Phys.	262	13	8	—
Education	303	147	33	43
Eng. and Arch.	180	—	26	3
Home Economics	5	55	1	20
Liberal Arts	243	105	29	59
Mineral Ind.	220	5	9	2
Phy. Ed. and Ath.	27	9	—	3
General Graduate	31	11	—	—
Total	1613	367	128	152
	1980		280	

Calendar

Next Week

Friday, Mar. 11

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. William T. Reid, assistant Technical Director, Battelle Memorial Institute, on "The Flow Properties of Coal Ash Slag."

Fluid Mechanics Seminar, 4:15 p.m., Room 211 Mechanical Engineering. Dr. Leo Steg and Walter Warren, Space Science Laboratory, General Electric Co. on "Plasma Flow Generation in the Arc Driven Tunnel."

Metallurgy Seminar, 1:15 p.m., Room 121 Mineral Industries. Dr. W. M. McKewan, U. S. Steel Corporation, on "Reduction of Iron Oxides."

Center Stage production of "An Italian Straw Hat," 8 p.m.

Hugo Weisgall lecture on "Twentieth Century Lyric Theatre: Revolution and Reaction," 8 p.m., HUB Assembly Room.

UCA lecture by Dr. Aaron Rutledge, director of counseling, Merritt-Palmer School, Detroit, on "Getting to Know You—The First Years of Marriage," 7:30 p.m., Room 214 Boucke.

Saturday, Mar. 12

Center Stage production of "An Italian Straw Hat," 8 p.m.

Lecture by Dr. J. Neal Hugnley, professor of economics, North Carolina College, 8 p.m., Helen Eakin Eisenhower Chapel, sponsored by the UCA Faculty Committee and SCA. Subject: The Christian Faith and the Capitalist-Socialist Controversy."

Sunday, Mar. 13

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Reverend William Kuhre.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. J. Neal Hugnley, professor of economics, North Carolina College.

University Lecture Series, 8 p.m., Schwab Auditorium. Dr. Hermann J. Muller, professor of zoology, Indiana University, on "The Future Physical Development of Man."

Monday, Mar. 14

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Wallace F. Workmaster, curator of Pattee Library Pennsylvania historical collection, on "Conserving Our Historical Resources."

Lecture by Dr. W. S. von Arx, professor of oceanography, Massachusetts Institute of Technology, on "Heat Balance of the Oceans," 10 a.m., Room 317 Willard, sponsored by the College of Mineral Industries.

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A." G. T. Vavouras on "Special Stress Problems Caused by Two-Dimensional Temperature Distributions."

Tuesday, Mar. 15

Academic Year Science Institute for Teachers lecture by Dr. Samuel Tolansky, professor of physics, Royal Holloway College, University of London, on "The Microtopographies of Surfaces," 12 noon, HUB dining room "A."

College of Business Administration faculty meeting, 4:15 p.m., Room 111 Boucke.

Geophysics and Geochemistry Seminar, 3:15 p.m., Room 121 Mineral Industries. Dr. A. K. Blackadar on "Numerical Weather Prediction—A Revolution in Meteorology."

Five O'Clock Theatre, Little Theatre, Old Main, 5 p.m. "A Stroke of the Brush," by Ivan Ladizinski, February graduate, now a producer at Station WCAU, Philadelphia.

Wednesday, Mar. 16

Forestry Convocation, 11 a.m., Room 121 Sparks. Stephen A. Liscinsky, biologist, Pennsylvania Game Commission. Illustrated lecture on woodcock habitat management.

Thursday, Mar. 17

Lecture by Dr. W. S. von Arx, professor of oceanography, Massachusetts Institute of Technology, on "Barotropic Oceanography," 3 p.m., Mineral Industries Auditorium, sponsored by the College of Mineral Industries.

UCA Series on "Is Christianity Intellectually Defensible," 8 p.m., Helen Eakin Eisenhower Chapel. Sam N. Gibson, executive director of UCA, on "The Problem of Religious Language: Myth and History." Discussants: Drs. Jerry Stannard and Helen Adolf.

Graduate Mining Seminar, 4:20 p.m., Room 24 Mineral Industries. Frank D. Hoyt on "Sound and Noise Control."

College of Home Economics faculty meeting, 4:15 p.m., Room 14 Home Economics. Dr. Dale Harris, professor of psychology, on "What Constitutes Good Teaching."

Friday, Mar. 18

Metallurgy Seminar, 1:15 p.m., Room 121 Mineral Industries. J. E. Werner, on "The Mechanism of Hydrogen Occlusion by Steels Below 400 deg. C."

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Robert N. Taaffe, professor of geography, Indiana University, on "Moscow University: A Case Study in Soviet Higher Education."

Artists Series Program by basso Cesare Siepi, 8:30 p.m., Schwab Auditorium.

Center Stage production of "An Italian Straw Hat," 8 p.m.

National Collegiate Athletic Association Gymnastics Championships, 2 p.m. and 8 p.m., Recreation Building.

College of Agriculture faculty meeting, 4:15 p.m., Room 112 Buckhout.

Next Month

Mar. 20—University Lecture Series: Dr. Leslie A. White, 8 p.m.

Mar. 20—Blue Band Concert, 3 p.m., Schwab.

Mar. 22—AFI lecture by Dr. Graham Hoyle, 4 p.m., 100 Weaver.

Mar. 23—Liberal Arts lecture by Dr. Paul Pickrel, 8 p.m., 121 Sparks.

Mar. 29—Lenten Concert by Meditation Chapel Choirs, 8 p.m., Chapel.

Mar. 30—University Lecture Series. Paul Sears, Yale University, 8 p.m.

Mar. 31—Thespian Show, 8:30 p.m., Also April 1 and 2.

April 2—UCA Forum. Dr. William Muehl, 8:15 p.m., Chapel Lounge.

April 3—Concert by the Women's Chorus, 3 p.m., Schwab.

April 8-9—Home Economics Spring Weekend.

Television Broadcasts

WFBG-TV, CHANNEL 10

Saturday, Mar. 12—Reading Instruction in the Elementary School, Dr. Lyman C. Hunt, 9-9:30 a.m.

Monday, Mar. 14—Also Wednesday and Friday, course in "Personal Finance," 9-9:50 a.m. Lecturer R. M. Colwell.

Monday, Mar. 14—Also Wednesday and Friday, news-interview program, "Postscript," with Marlowe D. Froke, 9:50-10:00 a.m. Guests: Dorothy J. Lipp, Frank J. Sorauf, and Miriam E. Lowenberg.

Monday, Mar. 14—Also each week day, the Farm, Home and Garden program, 12:30-1:00 p.m., Guests: Harold Holt, Wayne Hinish, James Becker, W. O. Mitchell, George Settlemyer and Thomas Kelly.

Thursday, Mar. 17—TV Guidelines (Channel 4)—8:30 p.m. Arthur Lewis and Mary Willard, guests.

News —

(Continued from page one)

will celebrate its 10th anniversary with a special issue this year, to appear about May 2.

As has been its custom, Pivot will accept contributions of poetry from faculty and staff members who are not members of the Workshop. Such contributions should reach Gucci by April 10.

► **GYMNASTICS:** Opening session in the National Collegiate Athletic Association Gymnastics Championships will be held from 2 to 5 p.m. on Friday, Mar. 18. The evening session on that day will begin at 8 p.m. Finals in all events will be held Saturday at 8 p.m.

► **RULES:** Parking and traffic regulations applying to University Park faculty and staff members were distributed last week to all employees. The regulations were effective Mar. 1.

Additional copies of the regulations may be obtained at the office of Employee Benefits, 304 Old Main, UN 5-6521.

faculty BULLETIN

Vol. 47, No. 24

Mar. 11, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

ARTHUR F DAVIS
229 RECREATION

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Popular Book

IN 1951, Mrs. Lucille Jackson Strauss, librarian for the College of Chemistry and Physics, edited a book, "Technical Libraries," which even today is receiving unusual attention.

Although of specialized use, the book has been a best seller for some years in its field, reports the Special Libraries Association, and was recently noted in a bibliography listing 250 of the best recent books in all fields. As a result of this listing, the book is being made available by Sears, Roebuck and Co. to 25 universities in seven Latin American countries.

In addition to acting as editor of the book, which was a highly detailed job in itself, Mrs. Strauss also wrote ten of the 12 chapters. Reviews at the time were highly commendatory, not only in this country but abroad as well. Mrs. Strauss has indications that the book has been made available in virtually every country, and only recently it was reported that the volume has been translated into Japanese.

The book was published by the Special Libraries Association and had been a project of the Association for two decades before Mrs. Strauss took over. It has been reprinted three times, and has been used as a text in many library schools.

"I even have a report that it was stolen from one library," Mrs. Strauss says humorously, "and it is missing from Pattee Library too."

Industry has also shown its appreciation of the book, which is a guide for the organization of technical libraries. The Cornell-Dubilier Co. is one such company which has recently said that the book has been helpful in its work.

News in Brief

► **MEDICAL:** Faculty and staff members this week received information concerning the proposed Major Medical Expense Insurance plan which will go into effect soon if 75% or more of the present members of the Hospital-Surgical Plan approve.

To help University employees make a decision regarding acceptance of the plan, a series of meetings has been scheduled at which discussions will be held and questions answered regarding the plan. The schedule of meetings is as follows:

Mon., Mar. 21, 4 p.m.—203 Willard
Wed., Mar. 23, 7 p.m.—203 Willard
Tues., Mar. 29, 11 a.m.—303 Willard
Thurs., Mar. 31, 7 p.m.—203 Willard
Mon., Apr. 4, 7 p.m.—203 Willard
Wed., Apr. 6, 4 p.m.—303 Willard
Tues., Apr. 12, 7 p.m.—303 Willard
Thurs., Apr. 14, 4 p.m.—303 Willard

► **DEADLINE:** Applications for grants-in-aid for research from the Administrative Committee on Research are to be filed no later than April 25 in order for the grants to be available by July 1, according to Dr. E. F. Osborn, Vice President for Research.

Applications should be filed with the dean of the college, in whose office forms are now available.

The intent of the University is that the fund be used primarily to promote fundamental research and creative studies, since support for applied research is more readily available from other sources. Grants are made for one year, and individual sums allocated are determined after all requests and the over-all picture of the needs have been considered.

The grants usually range from \$100 to \$300. In a few instances grants are made for larger sums to meet special needs.

The grants may be used for purposes specifically relevant to the particular investigations for which the grants are made, but are not usually given for general purposes such as attending meetings of learned or professional societies or for increasing departmental research equipment.

For more information consult the college representative on the Administrative Committee on Research.

► **PLAYHOUSE:** The Mateer Playhouse, at Standing Stone, will produce eight plays in a ten-week schedule this summer, with Max Fischer returning as director, and with Warren S. Smith, associate professor of theatre arts, as managing director.

The schedule includes Shakespeare as well as the works of contemporary

writers. Tennessee Williams' "A Streetcar Named Desire," and "Twelfth Night" by Shakespeare will both be featured for two weeks. First production starting, June 20, is Gore Vidal's "Visit to a Small Planet."

Others include:

June 27—Middle of the Night, by Paddy Chayefsky.

July 4—The Gazebo, by Alec Coppel.

July 11—A Streetcar Named Desire (two weeks).

July 25—Twelfth Night (two weeks).

Aug. 8—A View from the Bridge, by Arthur Miller.

Aug. 15—The Male Animal, by James Thurber and Elliott Nugent.

Aug. 22—Two for the Seesaw, by William Gibson.

► **RECREATION:** Faculty women are invited to take part in the recreational program being offered by the department of physical education for women this semester each Friday from 5:15 to 7 p.m. at White Hall.

Badminton, table tennis, swimming, bowling, and exercises are included in the program.

No charge is made for the use of the equipment. Participants should bring appropriate clothing for activity, caps for swimming, and tennis shoes. All are welcome. For further information, call Della Durant, 101 White Hall, 5-7591.

► **YOUTH:** Penn State will be well represented at the 1960 White House Conference on Children and Youth, Mar. 27-Apr. 2. Among those invited are: Winona Morgan, child development and family relationships; Dale Harris, psychology; Marguerite L. Duvall, child development extension specialist; William M. Smith, Jr., State 4-H Club leader, and Roy C. Buck, associate professor of agricultural economics and rural sociology.

► **LABOR:** A unique "Alumni Institute" for members of the United Steelworkers of America who have completed the four-year summer program on campus will be held on April 3-6, with the department of labor education in charge.

The four-day program will revolve around the theme: "Man in a Free World," and will include such presentations as the following:

"Trial of Socrates," given by graduate students in Theatre Arts under the direction of Vincent Scassellati.

Music by the Pittsburgh String Quartet.

An illustrated lecture on "Painting as a Language," given by Harold E. Dickinson and Yar Chomicky.

A film of Robert Frost and Jonas

More variety in food urged

MRS. Margaret Batjer Jennings, associate professor of Foods and Nutrition, generally startles her audience—



students, homemakers, teachers, etc. — when she suggests that pumpkin be served in a custard instead of a pie; that Swedish fruit soup is an excellent dessert; or that a salami sandwich or Quiche Lorraine are not out of place at breakfast time.

Perhaps it is Mrs. Jennings' Texas background which prompts her spirit of adventure in methods of teaching. Whatever it is, part of her philosophy is to be as flexible as possible in choosing foods.

Without any attempt to make a scientific study, Mrs. Jennings starts her Meal Management course with a "get acquainted quiz" in order to learn something of the eating habits of the students. Almost invariably, the majority list as their favorite meal: steak and French fried potatoes.

"Most of us follow a rigid pattern of eating and are reluctant to try new foods or combinations of food which are not normally included in our dietary schedule," she says. "With ever increasing opportunities for travel, both for students and families, I can foresee a broadening of horizons regarding food. But travel is not wholly necessary for the development of flexibility in taste. Right next door to you might live a family whose eating habits are vastly different from your own, due to a number of factors: for example, another cultural background, residence in different regions of our own country or abroad, or simply the love of experimentation with food."

"How," she asks, "is it possible for the shopper to wander through the formidable displays in today's supermarket in search of the items on her list without being inspired to buy and try something new for her family?"

She points out as an example that frozen African lobster tails are now available even in remote sections of our country where it is still impossible to buy a live Maine lobster. (Mrs. Jennings is quick to say that she is not suggesting that the former is a substitute for the latter!)

Mrs. Jennings is enthusiastic about the rich and varied heritage that her Pennsylvania students bring to her foods courses. However, she feels that, in some instances, they shy away from

discussing the culinary skills of their Hungarian, Lithuanian or German grandmothers.

Professional writing is one of Mrs. Jennings "extra" activities. She is currently preparing "Meals for the Modern Family," a manuscript done in conjunction with Mimi Atwater, former staff member. When the manuscript was in draft form, it was sent to the publishers with whom the authors had signed a contract. The opinion of the editors and their academic advisers was, "the material is too lively and interesting for a textbook!" The reviewers' request that the manuscript be re-touched here and there to conform more closely to the conventional pattern was not acceptable to Mrs. Jennings and her collaborator. "Why write still another conventional book?", the authors asked their publishers. Getting no satisfactory answer, the contract was dissolved by mutual agreement. A scout from another publishing firm with progressive ideas about textbooks expressed an interest in the Jennings-Atwater manuscript. As a consequence, John Wiley and Sons now have it on their publication list for early next year.

"Even publishers can be stodgy," is Mrs. Jennings only comment.

Recently, a speaker before the Detroit Dietetic Association, Mrs. Jennings pointed out in her talk that nearly all homes have a double standard for foods—one for meals to which guests are invited and another for family meals. Usually the guest meals are more "fussy" and are likely to be high in carbohydrate and fat calories, such as rich sauces, desserts smothered in whipped cream, and lots of extras. Generally speaking, the guest meals are also more costly and time consuming to prepare.

"In the case of the family meals, I feel if they have the proper attention they will satisfy and please the most discriminating guests. Who wouldn't welcome a dinner of chicken and corn chowder, Dutch cole slaw and apple dumplings with milk?"

Acting on the premise that her job is to take the findings from basic nutrition research and translate the information into foods that people like to eat, Mrs. Jennings comes up with some mouth watering suggestions for family meals.

➤ **AYI SPEAKER:** Dr. Graham Hoyle, professor of zoology, Glasgow (Scotland) University, will present a lecture on the program of the Academic Year Science Institute for Teachers on Tuesday, Mar. 22 at 4 p.m. in Room 100 Weaver.

News —

(Continued from page one)

Salk, illustrating the conflict and communication between science and the humanities.

A special presentation of the William Inge play, "Dark at the Top of the Stairs," which will begin its run at Center Stage on April 1.

Discussions by faculty members of the implications of each presentation will be given.

About 60 stewards of the union will be in attendance for the program, which was arranged by Helmut J. Golatz, assistant professor of industrial relations.

➤ **COSTLY:** An appeal to help reduce costs of electricity, heat, light, and other utilities on campus has been made by A. E. Diem, vice-president for business administration.

Pointing out that a five per cent saving in electricity would reduce the University's operating costs by \$11,000 yearly, Diem urged that every effort be made to eliminate waste by turning off unneeded lights, motors, heaters, and other appliances wherever feasible.

A steadily rising fuel bill is also causing concern, not only because of the cost itself but also because it represents a problem in heat capacity. The present boilers, Diem explains, will be taxed to the limit when the new Sackett Building and residence halls are added to the facilities being heated from the central power plant.

➤ **THESPIANS:** Tickets for the Penn State Thespians production of Cole Porter's "Kiss Me Kate" will go on sale Monday, Mar. 28 at 1:30 p.m. at the main desk of the Hetzel Union Building.

The Broadway musical, which won many awards as the outstanding musical during its season, will be presented on Thursday, Friday, and Saturday, Mar. 31-April 2 in Schwab Auditorium at 7:30 p.m. and at a special matinee on Saturday, Apr. 2 at 2 p.m.

Tickets are \$1.25 for Thursday and \$1.50 for the other three shows.

➤ **CONCERT:** The Penn State Concert Blue Band, composed of 104 men and women students and directed by James W. Dunlop, professor of music education, will give its annual winter concert on Sunday, March 20 at 3 p.m. in Schwab Auditorium.

Featured soloist with the Band will be James F. Burke, one of the world's foremost cornetists. He will play "The Carnival of Venice" and "The Bugler."

The program will include the first movement from Gliere's Symphony No. 3, La Boutique Fantasque by Rossini-Resphigi, and such standard band favor-

ites as "The Stars and Stripes Forever," "The Foundation March" by Richard Franko Goldman, and others.

Burke will conduct a clinic at 1:30 p.m. on Saturday, Mar. 19 in Room 117 Carnegie which will be open to the public and to which cornet players of the area are invited.

► **LECTURE:** Paul Pickrell, managing editor of The Yale Review and book review editor of Harpers magazine, will be the next speaker in the Liberal Arts Lecture Series on Wednesday, Mar. 23 at 8 p.m. in Room 121 Sparks. He will discuss "The Obsolescence of the Present."

► **CULTURE:** Dr. Leslie A. White, professor of anthropology at the University of Michigan, will speak on "The Evolution of Culture" in the concluding address of the current University Lecture Series on "The Origin and Development of Man and his Culture."

The lecture will be given in Schwab Auditorium at 8 p.m. on Sunday, Mar. 20.

Dr. White was only recently honored as one of the three winners of the 1959 Viking Fund Award given yearly by the Wenner-Gren Foundation for Anthropological Research.

► **SUCCUMBS:** Holle G. DeBoer, assistant professor of speech, died at his home in State College on Sunday, Mar. 13 at 5:30 a.m. He began his teaching career in 1932 at Colorado State College and was at Penn State in 1937 before going to Cornell and Hamilton College. He returned to Penn State in 1946.

► **ARTISTS:** Jean Leon Destine and his Haitian Dance Company will be featured on the Artists Series on Sunday Mar. 27. Tickets for this performance will go on sale to the general public on Wednesday, Mar. 23.

Originally scheduled for this date was Jose Limon and his dancers but injuries to key performers have caused cancellation of the tour.

Destine is known internationally, having completed a European tour and performed in the United States, Canada, and Mexico. He has received his country's "Honneur et Merite" in recognition of his work abroad.

► **TOUR:** The Food Stores Building on west campus will be open to area residents for a tour on Mar. 24, arranged by the Alumni Club of Centre County with Robert C. Proffitt, director of food service.

Beginning at 7 p.m., the tour will take from 60 to 90 minutes and will include all sections of the building.

Items of Interest

• Articles and Papers

David Gerner, English, Ogontz Campus, two review-articles for Chicago Review: in the Winter-Spring issue, "Psychodrama in Eden," review of John Barth's "The End of the Road"; in the Winter issue, "Hamlet's Left Hand," review of Benjamin DeMott's "The Body's Cage."

M. A. Mook, anthropology, an article on "Tongue Tanglers from Central Pennsylvania" in the current issue of the Journal of American Folklore.

G. M. Dusenberre, mechanical engineering, a paper titled "Triangular Grids for Heat Flow Studies" in the February issue of the Journal of the American Society of Naval Engineers.

J. E. Montgomery, family housing and home art, author of a research bulletin published recently in The Netherlands on the subject, "The Emerging Community in a Newly Reclaimed Area."

B. W. Niebel, industrial engineering, a paper at the 13th annual College-Industry Conference of the Foundry Educational Foundation, on "Engineering Analysis and Design in the Foundry."

W. A. Weyl, physical sciences, and Evelyn C. Marboe, mineral sciences, a paper on "Structural Changes during the Melting of Crystals and Glasses" in the British Journal of the Society of Glass Technology.

N. S. Endler, division of counseling, an article, "Social Conformity in Perception of the Autokinetic Effect," in the Journal of Abnormal and Social Psychology.

M. R. Fenske, Petroleum Refining Lab, a paper on "Recent Developments in Jet Engine Lubricants" at the regional meeting of the American Chemical Society's Petroleum Division Section at Philadelphia.

• Lectures and Talks

P. S. Beaver, management training, a talk on "The Manager's Responsibilities in the Company and the Community," during Management Night of the Easton (Pa.) Area Industrial Management Club.

A. K. Blackadar, meteorology, a series of nine lectures at St. Vincent College, Latrobe; Moravian College, Bethlehem, and Lehigh University on atmospheric turbulence, numerical weather prediction, and the meteorological uses of artificial earth satellites at the invitation of the American Meteorological Society.

E. W. Mueller, physics, a lecture to the Society of Sigma Xi at the University of Pennsylvania on the subject, "Field Ion Microscope."

At the Symposium on the Structure of Language and Its Mathematical Aspects at New York on April 14-15, H. B.

Curry, mathematics, a talk on "Some Logical Aspects of Grammatical Structure"; and H. T. Hiz, mathematics, on "Transformations of Sentence Structures and Grammatical Categories."

H. P. Zelko, speech, a lecture for the American Management Association's Executive Management course group on "Listening as a Management Tool."

M. S. Osborne, architecture, a talk before the Lycoming Historical Society at Williamsport on Pennsylvania architectural history.

J. A. Dixon, chemistry, a talk on "Hydrocarbon Structure and its Relation to Temperature and Pressure Effects on Viscosity," at the Spring Lubrication Symposium of the American Society of Mechanical Engineers, in New York.

M. A. Mook, anthropology, conducted a Career Day, Conference on College Teaching, at Westtown School, Westtown, Pa.

Donald Kagan, history, a talk for a Seminar in Ancient Greek History at Princeton University on the subject "Pheidon's Aeginetan Coinage."

G. A. Theodorson, sociology, three talks at the 12th Burma-Bucknell University Weekend Program, on "Burma's Problem of National Unity"; "The Future of Democracy in Burma"; and "The Revival of Burmese Culture."

M. R. Fenske, Petroleum Refining Lab., a talk before the research staff of the Humble Oil and Refining Co., Houston, Tex., on "Recent Developments in Industrial and Military Lubricants."

H. A. Finch, philosophy, three lectures at Columbia University: before seminars on Philosophical Anthropology; Myths of the 19th Century; and Interpretation.

L. H. Sommer, chemistry, a chemistry colloquium lecture on "Stereochemistry of Substitution Reactions at Silicon Atoms" at Harvard University.

M. R. Fenske, chemical engineering, a talk on "Increasing the Technical Competence of Research Workers" at the Industrial Research Institute in New York.

P. W. Fletcher, forestry, served as moderator of a panel discussion for the annual meeting of the Allegheny Section, Society of American Foresters on the topic, "Where Do We Want to Go?"

W. W. Hassler, history, spoke on "A New Look at General George B. McClellan" at the Susquehanna Civil War Round Table at Bucknell University.

H. S. Brown, education, talks before Bradford Area Joint School Board and area residents and also the Tioga-Potter Counties Schoolmen's Club on the subject, "Community Junior College."

Calendar

Next Week

Friday, Mar. 18

Metallurgy Seminar, 1:15 p.m., Room 121 Mineral Industries. J. E. Werner, on "The Mechanism of Hydrogen Occlusion by Steels Below 400 deg. C."

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Robert N. Taaffe, professor of geography, Indiana University, on "Moscow University: A Case Study in Soviet Higher Education."

Artists Series Program by basso Cesare Siepi, 8:30 p.m., Schwab Auditorium.

Center Stage production of "An Italian Straw Hat," 8 p.m.

National Collegiate Athletic Association Gymnastics Championships, 2 p.m. and 8 p.m., Recreation Building.

College of Agriculture faculty meeting, 4:15 p.m., Room 112 Buckhout.

Saturday, Mar. 19

NCAA Gymnastics Championships, 8 p.m., Rec Hall.

Center Stage production of "An Italian Straw Hat," 8 p.m.

Sunday, Mar. 20

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Reverend Sam Gibson.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Nicholas Goncharoff, consultant to the International YMCA.

Penn State Blue Band Concert, 3 p.m., Schwab Auditorium. James W. Dunlop, conducting.

University Lecture Series, 8 p.m., Schwab Auditorium. Dr. Leslie A. White, professor of anthropology, University of Michigan, on "The Evolution of Culture."

Monday, Mar. 21

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Nicholas Goncharoff, consultant to the International YMCA, on "Soviet Society — Messianic Conquest or Democratization of Life."

Mathematics Logic Conference, 10 a.m., Room 228 Sackett, arranged by Dr. H. B. Curry, professor of mathematics.

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A". A. V. Sharma on "Axially Symmetrical Thermal Stress Distributions."

Physics Colloquium, 4:15 p.m., Room 117 Osmond. E. C. Pollard, department of biophysics, Yale University, on "Molecular Biophysics at Yale University."

UCA Forum Series on "The Christian and the Problems of Contemporary Culture," 8:15 p.m., Helen Eakin Eisenhower Lounge. Dr. Nicholas Goncharoff, consultant to the International YMCA, on "America and the Asian Revolution."

State College Color Slide Club, 7:30 p.m., Mineral Industries Auditorium. Jerome K. Pasto, slides on "Asia and the Far East."

Disarmament Discussion Series sponsored by the Friends Meeting Peace Committee and

the Student Christian Association, 12 noon, main lounge, Helen Eakin Eisenhower Chapel. Dr. Neal Riemer, professor of political science, will lead a discussion on "The Moral Ambiguities of Disarmament." (A light lunch will be available for those who cannot bring their own, and coffee will be served.)

Tuesday, Mar. 22

Geophysics and Geochemistry Seminar, 3:15 p.m., Room 121 Mineral Industries. Robert Stefanko on "Rock Mechanics — Aid to Strata Control."

Academic Year Science Institute lecture, 4 p.m., Room 100 Weaver. Dr. Graham Hoyle, zoology department, Glasgow University.

Five O'Clock Theatre, Little Theatre, Old Main, 5 p.m.

Wednesday, Mar. 23

Liberal Arts Lecture Series, 8 p.m., Room 121 Sparks. Paul Pickrel, managing editor, The Yale Review, on "The Obsolescence of the Present."

Forestry Convocation, 11 a.m., Room 121 Sparks. Francis H. Thomas, director of Furniture Technical Service Laboratories, Chicago, on "Recent Technological Developments in the Furniture Industry."

Thursday, Mar. 24

English Colloquium, 7:30 p.m., Nittany Lion Inn. Dr. Herbert Howarth, professor of English, University of Pittsburgh, on Shakespeare's Gentleness."

Graduate Mining Seminar, 3:20 p.m., Room 24 Mineral Industries. James P. Connell on "Illumination Fundamentals."

Mathematics Colloquium, 3:15 p.m., Room 12 Sparks. Dr. H. B. Mann, professor of mathematics, Ohio State University, on "Addition Theorems of Number Theory and Group Theory."

Meeting of American Chemical Society, Central Pennsylvania Section, 8 p.m., Room 119 Osmond. Dr. Edward C. Kooyman, professor of organic chemistry, University of Leyden, Holland, on "Steric Effects in Free Radical Chemistry."

Chemistry Colloquium, 1:15 p.m., Room 119 Osmond. Dr. E. C. Kooyman on "Gas Phase Halogenation of Benzene and Derivatives."

Friday, Mar. 25

Fluid Mechanics Seminar, 4:15 p.m., Room 211 Mechanical Engineering. Ralph Hauslund, on "Plane Shock Wave Refraction at Gaseous Interfaces."

Center Stage production of "An Italian Straw Hat," 8 p.m.

Movie, "The Nearest Star," produced by the National Research Council, and introduced by Stanley Ruttenberg, director, U.S. National Committee for the IGY program office, 7:30 p.m., Mineral Industries Auditorium, sponsored by the division of earth sciences.

➤ **PHOTOS:** An exhibit of photographs by Wendell S. Mac Rae, assistant to the curator of Pattee Library, is now on display in the cases in the lobby of the Library. Included are photos of Bali, New York, Williamsburg, and State College.

Next Month

Mar. 29—Lenten Concert by Meditation Chapel Choirs, 8 p.m., Chapel.

Mar. 30—University Lecture Series. Paul Sears, Yale University, 8 p.m.

Mar. 31—Thespian Show, 8:30 p.m., Also April 1 and 2.

April 2—UCA Forum. Dr. William Muehl, 8:15 p.m., Chapel Lounge.

April 3—Concert by the Women's Chorus, 3 p.m., Schwab.

April 8-9—Home Economics Spring Weekend.

April 10—Chapel Choir Easter program. 8 p.m., Schwab.

April 13—Recess begins 12 noon, ends April 20, 12:15 p.m.

Television Broadcasts

WFBG-TV, CHANNEL 10

Saturday, Mar. 19—Reading Instruction in the Elementary School, Dr. Lyman C. Hunt, 9-9:30 a.m.

Sunday, Mar. 20—"The Soviet Challenge," 5 p.m., with regular panelist Dr. V. V. Aspaturian, with guests Hugo Weisgall and Ben Euwema.

Monday, Mar. 21—Also Wednesday and Friday, course in "Personal Finance," 9-9:50 a.m. Lecturer Arthur L. Williams.

Monday, Mar. 21—Also Wednesday and Friday, news-interview program, "Postscript," with Marlowe D. Froke, 9:50-10:00 a.m. Guests: Dorothy J. Lipp, Frank J. Sorauf, and Miriam E. Lowenberg.

Monday, Mar. 21—Also each week day, the Farm, Home and Garden program, 12:30-1:00 p.m. Guests: A. R. Keniston, J. O. Dutt, Ruth Ball, Mary Rearick and James Pound.

Thursday, Mar. 24—TV Guidelines (Channel 4)—8:30 p.m. F. L. Whaley and Gloria Helfgott.

Please Note

The Faculty Bulletin is published for the academic members of the University staff, including graduate assistants. The mailing list also includes a number of administrative and executive personnel as well as some clerical staff members whose positions are such that the Bulletin is helpful in their work.

To keep costs of production at a minimum and to reduce the work involved in maintaining the mailing list, departments are asked not to request the Bulletin for any persons other than those noted above.

faculty BULLETIN

Vol. 47, No. 24

Mar. 11, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

ARTHUR F DAVIS
229 RECREATION

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

News in Brief

► **FRENCH:** The U. S. Department of Health, Education, and Welfare has provided a grant of \$124,447 to support a French Institute in the 1960-61 academic year.

Dr. Simon Belasco, associate professor of Romance languages, will be director of the Institute, which is designed to improve the teaching of French and the status of language teaching generally. The program is organized under the provisions of Title 6 of the NDEA of 1958 and is the only French institute organized on an academic year basis under terms of the Act.

► **OVERSEAS:** A 30-minute recording of the Penn State Glee Club, directed by Frank Gullo, will be beamed to armed forces personnel overseas in a new series titled "On the Campus" assembled by the Armed Forces Press, Radio, and Television Service. Penn State is one of 60 universities to be represented.

► **TOUR:** Dr. Raymond Pepinsky will speak on "The Groth Institute" on Tuesday, Mar. 29, in Room 214 Boucke Building at 7:30 p.m. at the monthly meeting of Phi Lambda Upsilon, honorary chemical society. A tour of the Institute will follow. All interested persons are invited.

► **FORUM:** Dr. William Muehl, professor of practical theology, Yale University, will be the fourth speaker in the current UCA Forum Series on "The Christian and the Problems of Contemporary Culture" on Saturday, April 2, at 8:15 p.m. in the Helen Eakin Eisen-

(Continued on page three)

Buyer beware is still good policy

WITHIN recent months, many faculty members have received, via U. S. mail, catalogues of several "wholesale" houses offering a variety of merchandise to the customer, presumably at low prices.

This is but one of many techniques used today to solicit the retail business of the "average shopper." There are a number of others which appeal to the bargain instincts of the buying public.

What are these techniques? How can the consumer benefit from them? If you can buy it "wholesale," why buy retail?

"Certainly many people today believe that if you pay list price, you are paying too much," says Dr. Francis A. Babione, associate professor of marketing. "And in some goods, that is literally the case, since there are a number of ways that the consumer can by-pass normal retail channels, or if he does buy in a retail store, that he can avoid the list price."

A decade ago, the "discount house" came into prominence, particularly in the appliance field, with small markups and big volume to compete with the department stores and the usual retail outlets.

"Instead of establishing prices at a certain percentage above the price he bought the item for, the discount house operator bet that he could make money on the item if he took a relatively small fixed profit. For example, on an item that cost him \$20, he would be satisfied if he could sell it for perhaps \$25, banking on quick turnover and many sales. The important criterion was larger dollar volume per year.

"The effect of this marketing method was to force the other merchandisers to reconsider their fixed-percentage markup.

"Discount houses are selling many types of both hard and soft goods now, and have branched out to virtually rival the department store in the variety of goods. In these new lines, however, they have had to use more conventional markup practices.

Investigate

"Just because the item you want is offered at a discount house do not think that you will get it at the lowest possible price. It is worth investigating all the possible retail outlets for the item because it might be just as cheap elsewhere."

In some items, Dr. Babione points out, the discount house provides no delivery or other service, will not allow credit sales, and accepts no trade-ins. All these cost the merchandiser



Francis A. Babione

money and if they are important to the consumer must be taken into account in evaluating the price of the article.

The trade-in is one of the more flexible devices available to many segments of the merchandising field, Dr. Babione points out. With it, the retailer can meet competition, if necessary, by allowing a high trade-in value and taking a relatively small profit. At the same time, if the sale does not depend on a large trade-in value, the retailer can maintain his regular profit margin.

Trade-in profit

"Of course the article traded in may be quite usable," says Dr. Babione, "and by a little repair work bring in a small additional profit.

"Generally, I think, retailers do not like to handle the trade-in article in many hard goods, but of course the automobile industry thrives on it.

"From the consumer's standpoint, it would frequently be wise to verify the value of the trade-in before making the purchase. Appliance dealers in larger cities may quote a higher initial price if they sense that a trade-in will be offered. Therefore it is wise to learn the best cash price without a trade before discussing what you may have to trade in."

In a sense, then, there has been a very old, yet relatively new, dimension added to marketing since competition for sales has increased.

"I don't like to use the term 'haggling' but it comes close to that," Dr. Babione says. "In many outlets selling hard goods, bargaining between customer and salesman is an accepted practice and the so-called list price is only

(Continued on page four)

Senate Minutes

Minutes of the Meeting of March 10, 1960

The University Senate met at 4:15 p.m. on Thursday, March 10, 1960 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the February 11, 1960 meeting were approved as printed in the Faculty Bulletin for February 26 with one grammatical correction. Two hundred members signed the roll.

COMMUNICATIONS OF UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present and naming substitutes. The substitute is designated in parenthesis following the name of the senator: Martha Adams (Susanne Pernice), W. P. Campbell (W. G. Noyes), D. H. Ford (R. N. Kreckler), James Gemmell (W. J. Page), D. E. Hardenbergh (M. P. Gaus), R. W. Lindsay (B. F. Oliver), E. B. McCoy (G. W. Harvey), R. C. Maloney (H. J. O'Brien), R. A. Murray (A. G. Punnett), M. S. Osborne (L. A. Richardson), C. R. Reen (Samuel Shults), G. K. Nelson (T. M. Rabun), and E. P. Strong (Alice Warne).

New Senator

From the College of Physical Education and Athletics, Miss Barbara J. Huepner to replace Donald Swegan for the Spring Semester, 1960.

The secretary read a letter from R. G. Winter, Senator from the College of Chemistry and Physics, addressed to President Walker and a letter from President Walker addressed to the University Senate, concerning the legality of Senate action on Calendar Policy at the Senate meeting on February 11, 1960. The letters are as follows:

Dear Mr. Walker:

During its February 11, 1960 meeting, the University Senate passed to you and to the trustees responsibility for the choice between the present calendar and a quarter system. I hold that this action was out of order and that it should be declared void for the following reasons:

Article II, Section I of the Constitution of the Senate states in Item 1 that education policy decisions are a function of the Senate. Item 7 of the same section states separately that University calendar decisions are a function of the Senate. It follows that the Constitution places responsibility for the calendar with the Senate regardless of whether it can be proved that the calendar arrangement affects educational policy.

The Senate cannot delegate Constitutional rights or duties without a Constitutional amendment. Any other interpretation would make a listing of Constitutional rights or duties meaningless.

I respectfully request that this letter be presented to the Senate, and that a ruling be given on the point raised here in accordance with Article II, Section 3 of the Constitution.

Respectfully yours,
Rolf G. Winter

From: President Eric A. Walker
To: The University Senate

Professor Rolf G. Winter, Senator from the College of Chemistry and Physics, is requesting a ruling under Article II, Section 3, of the Constitution of the University Senate concerning the action taken at the February 11, 1960 meeting upon recommendation of the Senate Committee on Calendar and Class Schedule.

The By-Laws of the Senate, Article II, Section 2 d, states that the duties of the Committee on Calendar and Class Schedule shall be to "recommend to the Senate policies concerning the calendar." In accordance with this statement of its duties, the Senate Committee had distributed to members of the Senate on January 28, 1960, as Appendix B of the Agenda for February 11, 1960 meeting of the Senate a report which included the following: "... the Senate Committee on Calendar and Class Schedule recommends that the University Senate approve the following statement of policy ... the Senate of The Pennsylvania State University believes that the responsibility for a decision as to whether the University should remain on the semester system or change to a quarter system should rest solely with the President of the University and its Board of Trustees." This recommendation was acted upon favorably by the Senate.

It is the ruling of the President of the University that this is not a question of jurisdiction.

REPORTS OF STANDING COMMITTEES

C. W. Pierce, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, pre-

sented the report which had been distributed with the agenda as Appendix "A" and moved its adoption. The motion was seconded and passed. The report is on file in the office of the secretary.

Mr. Pierce then presented the "Informational Report" which had been distributed with the agenda as Appendix "B" and stated that its purpose was to summarize in one place the criteria the Senate Courses of Study Committee will use in reviewing curriculums. In presenting this report Mr. Pierce asked that the original item 5 be deleted and the following item 5 be substituted:

5. The minimum requirement of three credits in any one of the four areas indicated under items 1 and 2 above may be satisfied by passing an appropriate proficiency examination set at the University level. Curriculums which propose to meet one of these minimum requirements by a proficiency examination, rather than by specifically scheduled courses, may be approved by the Committee on Courses of Study.

Mr. Pierce stated that the new item five was a clarification of the original.

President Walker called on R. T. Oliver to explain the "Commentary by the Parliamentarian on the Appendix 'B' of the Senate Agenda for March 10, 1960" which had been distributed at the meeting. J. S. Bowman raised a question of item II c which stated that English Zero shall no longer be taught by the Fall of 1962. Mr. Bowman commented that nothing has been said about English 0 being discontinued and this statement obligates the Department to discontinue English 0. The President asked Mr. Oliver to check his informational source and restate item II c. The "Commentary" as corrected by Mr. Oliver is as follows:

I. This report does not constitute legislation nor does it serve as an instrument to which specific amendments may be attached. It is a statement indicating what factors the Courses of Study Committee will apply hereafter in its review of curriculums.

II. The report reminds the Senate that all existing curriculums must be brought before it for review, in accordance with the Senate resolution adopted on May 1, 1958. When existing and new curriculums are reviewed by the Committee, the Committee will base its judgment and recommendations upon the following specific legislation adopted by the Senate:

a) On May 1, 1958, the Senate resolution provided that all existing curriculums should be reviewed by their respective Colleges to bring them so far as possible into conformity with the Statement of Objectives adopted by the Senate on December 2, 1954, and approved by the Board of Trustees on Jan. 26, 1957;

b) In the May 1, 1958, Senate resolution it was further provided that consideration shall be given to the number of students enrolled in existing curriculums;

c) On April 10, 1958, the Senate adopted a resolution (subsequently amended) providing that by the fall of 1962 it will be presumed that entering students will have a competence in English usage sufficient to enable them to enter into the required courses in English Composition, except that remedial work in English may be offered during summer sessions or through extension;

d) On June 3, 1959, the Senate adopted a resolution providing that all students in the University should take Speech 200 unless specifically exempted;

e) On November 5, 1959 the Senate adopted a resolution re-affirming the requirement of courses in physical education.

III. Although the Objectives adopted by the Senate on December 2, 1954, constitute a "statement of principles" without a specific enactment clause, the Courses of Study Committee informs the Senate that hereafter it will review all curriculums to determine whether they exemplify the stated objectives. As provided by the By-Laws of the Senate, Article II, Section 2, paragraph (f), "It shall be the duty of the Committee on Courses of Study ... to study the curriculums of the University ... and to make recommendations on changes in curriculums to the Senate."

IV. When the recommendations of the Committee on Courses of Study are presented to the Senate, such recommendations may be approved, amended, or rejected by majority vote of all Senators present and voting, as provided by the Constitution of the Senate, in Article II.

In the discussion on the "Informational Report" J. D. Ridge stated that he felt the Senate should be asked to vote on the report rather than be advised that the Committee is planning to follow these criteria. H. K. Shilling moved that the Senate approve the criteria as presented by the Committee and that the Committee be instructed to proceed. The motion was seconded. H. L. Hartman moved an amendment to item one to include

"and biological" after the word "physical" in the last line. The motion was seconded and passed.

H. W. Sams moved an amendment to item four to include the word "elementary" before the words "mathematics" and "English Composition." The motion was seconded and passed. M. W. Isenberg moved an amendment to items one and two by adding at the end of the first sentence "unless an appropriate proficiency examination in one of the areas has been passed successfully" and deleting item five. The motion was seconded and after discussion was defeated. Joseph Marin moved an amendment to item one to add the words "and engineering sciences" after the words "earth sciences" in the second sentence. The motion was seconded and after discussion was defeated. L. J. Perez moved that the words "set at the University level" in the corrected item five be deleted in order to assure that the proficiency examinations involved not be set at a level beyond that encompassed by introductory courses. The motion was seconded. R. B. Patrick moved that this amendment and the main motion be tabled until the next meeting. The motion was seconded and defeated. The question on the amendment to delete the five words from item five was passed by a vote of 96-93. The question on the main motion as amended was passed. The complete Informational Report, including the criteria adopted by the Senate is as follows:

INFORMATIONAL REPORT

The purpose of this report is to summarize in one place the criteria the Senate Courses of Study Committee will use in reviewing curriculums. These criteria will be applied to the curriculum as a whole when any proposed change comes before the Committee. Each College should review its curriculums and submit to the Committee, proposals to revise curriculums as necessary to conform with these criteria.

General requirements

Standard Practices, Senate Committee on Courses of Study dated September 28, 1959, details procedures to be followed in revising curriculums and proposing new ones. The forms required to be used in submitting proposed changes list certain requirements to be met by curriculums.

General education

The Senate adopted the objectives of the Subcommittee on General Education of The Educational Policy Committee of the Senate (the Callenbach Report), December 2, 1954. Each proposed curriculum change should be accompanied by a demonstration of how the curriculum attempts to meet these objectives.

Curriculums with small enrollments

The report of the Subcommittee on Course Offerings of the Senate Committee on Educational Policy (the Whisler Report) was adopted by the Senate May 1, 1958. By this action, each College is required to review curriculum and course offerings and report to the Senate Committee on Courses of Study. Following receipt of these reports, the Committee will recommend action to the Senate.

All proposed curriculum changes should be accompanied by a statement of the number of graduates in each of the past five years and the number currently enrolled. In case of enrollments of less than 20 students in the fifth through eighth semesters, the recent enrollments in each of the required professional courses should be stated.

Communications

On April 10, 1958, the Senate accepted a recommendation of the Educational Policy Committee stating, "Minimum competence in English usage shall be defined as the level of achievement equivalent to that required for passing English Composition 3 or its equivalent as approved by the English Department."

The Senate acted on June 3, 1959, to require each student in all curriculums to take and pass Speech 200 unless exempted. Proposals for adding Speech 200 to curriculums not now requiring it should be sent to the Committee on Courses of Study through the usual channels.

Science and humanities

The Senate in adopting the Subcommittee on General Education's Report (the Callenbach Report), December 2, 1954, accepted Objective 3, "to acquire typical factual information of universal concern in each of the four broad areas of knowledge: physical science, biological science, social science and the humanities," and Objective 11, "to develop an awareness of one's capacity to understand literature and the fine arts and to encourage independent development of this capacity." The Courses of Study Committee proposes to examine each curriculum, major and option, for required courses in each of these areas:

1. Each curriculum shall include a minimum of 12 credits in the physical and biological sciences with at least 3 credits in each of these areas. Appropriate courses in the

earth sciences may be counted towards the physical and biological science requirement.

- Each curriculum shall include a minimum of 12 credits in the social sciences and the humanities with at least 3 credits in each of these areas. Courses in philosophy, literature, and the fine arts will be counted towards the humanities requirement. Courses in history may be counted in either the social science area or the humanities depending on the nature of the specific course.
- Appropriate courses in physical science, biological science, social science, humanities or literature and fine arts may be counted toward meeting these requirements even if they are a part of the professional content of the particular curriculum.
- Courses in elementary mathematics, and elementary speech and elementary English Composition are not to be counted towards these requirements.
- The minimum requirement of three credits in any one of the four areas indicated under items 1 and 2 above may be satisfied by passing an appropriate proficiency examination. Curriculums which propose to meet one of these minimum requirements by a proficiency examination, rather than by specifically scheduled courses, may be approved by the Committee on Courses of Study.

Physical education

On November 5, 1959, the Senate adopted a recommendation of the report of the Committee on Educational Policy that the basic physical education program, presently in effect, as governed by Senate regulations, shall be required of all students and shall be designed to fulfill the aims of Objective 13 of the report of the Subcommittee on General Education (Callenbach Report).

General Education courses

In 1958-59, the Senate Courses of Study Committee asked the Senate Educational Policy Committee to review and evaluate the General Education courses. Following a study by a special subcommittee, the Educational Policy Committee, in a report to the Courses of Study Committee, state:

"Colleges should incorporate the existing General Education courses into their various curriculums as quickly as possible by allowing them, at the option of the student, to be used along with current courses as fulfillment of basic requirements in the various subject matter areas (i.e., social science, humanities, arts and sciences)."

All curriculums should be examined in light of this recommendation.

OLD BUSINESS

Monroe Newman, Chairman of the SENATE COMMITTEE ON STUDENT AFFAIRS, announced that the Committee had studied the changes in Rules Y-3 and Z-3 of the Regulations for Undergraduate Students as referred to it at the February 11, 1960 meeting of the Senate and recommended that no changes be made in the present rules.

The next regular meeting of the University Senate will be on April 7, 1960. The agenda will be distributed on March 24, 1960. The meeting adjourned at 5:16 p.m.

Robert G. Bernreuter
Secretary

Calendar

Friday, Mar. 25

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. D. S. Coombs, professor of geology, University of Otago, New Zealand, on "Lower-grade Mineral Facies in New Zealand."

Fluid Mechanics Seminar, 4:15 p.m., Room 211 Mechanical Engineering. Ralph Hauslund, on "Plane Shock Wave Refraction at Gaseous Interfaces."

Center Stage production of "An Italian Straw Hat," 8 p.m.

Movie, "The Nearest Star," produced by the National Research Council, and introduced by Stanley Ruttenberg, director, U.S. National Committee for the IGY program office, 7:30 p.m., Mineral Industries Auditorium, sponsored by the division of earth sciences.

Saturday, Mar. 26

Center Stage production of "An Italian Straw Hat," 8 p.m.

UCA Colloquy on "Is Christianity Intellectually Defensible," with Dr. Julian Hartt, Yale University. At Wesley Foundation, 2:30 to 8:30 p.m.

Graduate Student Association Square Dance, 8:30 p.m., HUB Ballroom. Faculty and graduate students invited.

Sunday, Mar. 27

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Julian Hartt, Yale University Department of Religion.

Artists Series, 8 p.m., Rec Hall, Jean Leon Destine Haitian Dance Company.

Monday, Mar. 28

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Dr. Jerome K. Pasto on "The Agricultural Development of Asia."

Meeting of faculty of College of Physical Education and Athletics, 7 p.m., Room 214 Recreation.

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A." E. E. Headington on "Thermal Stress in Axially Symmetrical Shells Subjected to Axially Symmetrical Temperature Distribution."

Disarmament Discussion Series, 12 noon, main lounge, Chapel. John McLucas, HRB-Singer, on "The Economic Implications of Disarmament."

Tuesday, Mar. 29

Lenten Concert by Meditation Chapel Choirs, Helen Eakin Eisenhower Chapel, 8 p.m.

Five O'Clock Theatre, Little Theatre, Old Main, 5 p.m. "The Dining Room," by Alice Mahacek, senior in arts and letters.

Geophysics and Geochemistry Seminar, 3:15 p.m., Room 121 Mineral Industries. C. W. Burnham, on "Hydrothermal Research Related to Magmas and Ore Deposits."

Physics Colloquium, 4:15 p.m., Room 117 Osmond. T. D. Schultz, department of physics, University of Illinois, on "The Motion of Slow Electrons in Ionic Crystals."

Wednesday, Mar. 30

Forestry Convocation, 11 a.m., Room 121 Sparks. Hamilton K. Pyles, regional forester, U. S. Forest Service.

Graduate Lecture Series, 8 p.m., Room 121

Sparks. Dr. Paul Sears, conservationist, Yale University, on "Ecology of Man."

Talk by Dr. Robert Radlow, National Science Foundation postdoctoral research fellow in psychology, on "A Decision-Making Model for Learning," 12:30 p.m., dining room "A," HUB, sponsored by the department of psychology.

Thursday, Mar. 31

Biological Lecture Series, 4:15 p.m., Room 112 Buckhout. Dr. S. R. Suskind, The Johns Hopkins University, on "Current Research on the Nature of Gene Action in Neurospora."

Penn State Thespians' production of "Kiss Me Kate," 7:30 p.m., Schwab Auditorium.

Graduate Mining Seminar, 3:20 p.m., Room 24, Mineral Industries. David G. Mickle, on "Illumination Practice."

American Society of Mechanical Engineers, Central Pennsylvania Section, meeting 7 p.m., Room 110 Electrical Engineering. Dr. M. R. Fenske, on "Petroleum and World Energy."

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. Herwig Schopper, director of nuclear physics, Johannes Gutenberg University, Mainz, Germany, on "The Beta Decay (The Nature of the Weak Interacting Parity and Time Reversal Experiments)."

Friday, April 1

Thespians production of "Kiss Me Kate," 7:30 p.m., Schwab Auditorium.

Center Stage production of William Inge's "The Dark at the Top of the Stairs," 8 p.m.

Next Month

April 2—UCA Forum. Dr. William Muehl, 8:15 p.m., Chapel Lounge.

April 3—Concert by the Women's Chorus, 3 p.m., Schwab.

April 8-9—Home Economics Spring Weekend.

April 10—Chapel Choir Easter program, 8 p.m., Schwab.

April 13—Recess begins 12 noon, ends April 20, 12:15 p.m.

April 21—Lecture by Olaf Mickelsen, National Institute of Arthritis and Metabolic Diseases, 8 p.m., Room 121 Sparks.

April 22—Lecture by Hugo Weisgall, 8 p.m., HUB assembly room.

April 24—Glee Club concert, 3 p.m., Schwab.

Television Broadcasts

WFBG-TV, CHANNEL 10

Saturday, Mar. 26—"From the Bookshelves," with Dr. Lyman C. Hunt, 9-9:30 a.m.

Sunday, Mar. 27—"The Soviet Challenge," 5 p.m., with regular panelist Dr. V. V. Aspaturian, with guests Hugo Weisgall and Ben Euwema.

Monday, Mar. 28—Also Wednesday and Friday, course in "Personal Finance," 9-9:50 a.m. Lecturer Arthur L. Williams.

Monday, Mar. 28—Also Wednesday and Friday, news-interview program, "Postscript," with Marlowe D. Froke, 9:50-10:00 a.m. Guests: Dennis Malick, Laurence H. Lattman, and Jerome Weiss.

Monday, Mar. 28—Also each week day, the Farm, Home and Garden program, 12:30-1:00 p.m. Guests: Francesca Markle, L. B. Smith, Helen Butler, Garner Mitchell, and Margaret Isenhower.

Thursday, Mar. 31—TV Guidelines (Channel 4)—8:30 p.m. Joseph Servello and Bernard Oldsey.

News in brief—

(Continued from page one)

hower Chapel. He will speak on "Religious Loyalty and the Political Office Holder."

► **ABSENTEE:** Faculty and staff members who are eligible voters but who plan to be out of town on April 26, the day of the primary elections, may apply for an absentee ballot. The State College League of Women Voters has prepared information which will explain the procedure in making application. Mrs. R. L. Slobod (AD 8-1128 or UN 5-6335) or Mrs. Charles Haas (AD 8-8767) may be contacted for such information. This is the first time in Penn-

sylvania that absentee ballots have been permitted.

► **GENES:** Dr. Sigmund R. Suskind, of the McCollum-Pratt Institute, The Johns Hopkins University, will be the next speaker in the current Biological Lecture Series on Thursday, Mar. 31 at 4:15 p.m. in Room 112 Buckhout. He will speak on "Current Research on the Nature of Gene Action in Neurospora."

► **RESEARCH:** Dr. John T. Wilson, assistant director for biological and medical sciences of the National Science Foundation will speak to a special meeting on Thursday, April 14, concerning the types of research and programs in which the Foundation is interested. Although this is a meeting of the Col-

lege of Agriculture faculty, all other faculty members are invited. The meeting will be held at 4:15 p.m. in Room 109 Armsby.

► **LECTURE:** Paul B. Sears, professor of botany, and chairman of the conservation program Yale University, will be the Graduate School Lecture Series speaker on Wednesday, Mar. 30 at 8 p.m. in Room 121 Sparks.

He will speak on "Ecology of Man" and the talk is co-sponsored by Gamma Sigma Delta, honorary society of agriculture.

Dr. Sears is the author of a number of books, including Charles Darwin, This Useful World, and Life and Environment.

(Continued on next page)

Buyer—

(Continued from page one)

a starting point for the give and take. The value of the trade-in is one part of this bargaining, but in certain types of goods—such as automobiles—there are many features which can be thrown in to close the sale; for example, a set of winter-tread tires, new seat covers, etc.”

Buying from a catalogue is certainly not a new practice, but it has taken a number of different directions in recent years. Best known are those of the big houses—Sears and Montgomery, Wards. This type appeals for the variety of its goods, as opposed to the specialty outlets—such as radio and television houses—which handle a relatively restricted line of goods.

“There is also the local entrepreneur who buys a wholesale catalogue in New York, puts his name on it and offers goods at so-called wholesale prices, plus a small markup to cover his modest expenses. The former Centre County Volume Sales in State College was of this type. This operation depends on very low overhead—no store, no service, and sometimes no delivery except to a central point—to meet competition. Too, the catalogue lists only a few of the best known brand names, and the customer has difficulty in learning the true value of the goods.”

One of these catalogues recently mailed to faculty members here, Dr. Babione relates, lists a nationally advertised watch at \$55, for which you pay only \$23.50. This is a good value, but not nearly as generous as represented. The fact is that a few years ago many manufacturers “preticketed” watches at prices which, in some instances, gave the retailer a markup as high as 200 per cent above cost, with

the expectation that he would offer drastic discounts to consumers.

“The trend is now back toward normal list prices, and the producer of the watch just cited now offers a 17-jewel watch at a realistic list price of \$25.00. The same catalogue carries 7x50 binoculars at an alleged ‘list’ of \$59.50, with your cost only \$22.50. These are doubtless imports which recently wholesaled for \$11, FOB Japan, or \$14.70 landed cost, including duty, in San Francisco. They are a ‘bargain’ at \$22.50, but the list price is largely fictitious.”

To meet the competition of these methods, retailers of the neighborhood variety—the owner-operated type—must bank on the customer place a value on three advantages: immediate availability, service, and the opportunity for the customer to see what he is buying.

“In addition, if you are established locally he may also provide credit without interest,” Dr. Babione adds.

It is pointed out, too, that if a buyer wants Arrow shirts, Florsheim shoes, Hart Schafner and Mark suits and the like, or if he is buying gasoline, staple groceries, etc., he may as well buy from his favorite local retailer.

Under any circumstances, Dr. Babione advises, the principle of “caveat emptor” still prevails in the purchase of many lines. A bargain is not a “cheap” article; it is a useful piece of merchandise which is selling for a lower price than the customer expected to pay for it or that he would have to pay elsewhere.

“The quality of any goods must be viewed according to your use,” Dr. Babione concludes. “The customer must set the standards and then find the place which sells him the article which meets those standards at the lowest price possible. That isn’t easy.”

News in brief—

(Continued from page three)

► **MUSICAL:** Cole Porter’s Broadway musical hit, “Kiss Me Kate,” will be presented by the Penn State Thespians, Thursday through Saturday, Mar. 31-April 2 in Schwab Auditorium at 7:30 p.m. A special matinee performance will also be given on Saturday at 2 p.m. Tickets for the Thursday performance are \$1.25 and for the other three, \$1.50.

► **WATER:** George B. Maxey, head of the Ground Water and Geophysical Exploration Section of the Illinois State Geological Survey and professor of geology at the University of Illinois, will speak on “The Geology of Water and its Importance to Our Industrial Civilization” on Friday, April 1 at 4 p.m. in the Mineral Industries Auditorium, sponsored by the Distinguished Lecture Committee of the American Association of Petroleum Geologists.

► **PLAYERS:** William Inge’s “The Dark at the Top of the Stairs” will be presented by the Penn State Players at Center Stage for six weekends, beginning April 1 and 2, at 8 p.m.

The play is described as a moving and amusing comedy-drama about the dark at the top of everyone’s stairs.

► **CONFERENCE:** Students and faculty members who are members of Omicron Delta Kappa, national leadership honor society, are hosts today for other ODK members of Province I, representing colleges from New York to Washington, D. C., in a conference on the theme, “The Challenge of the Changing Academic Environment.”

The speaker for the banquet this evening at the State College Hotel is Dr. Robert K. Murray, head of the department of history.

faculty BULLETIN

Vol. 47, No. 26

Mar. 25, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

Allan Rodgers
201 Min Sec.

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

News in Brief

► **FOOTBALL:** Application materials for the 1960 football season were mailed to faculty and staff members this week by the Athletic Association.

Season tickets are priced at \$12 each this year, for games with Boston U., Missouri, West Virginia, and Maryland.

For the first time, the Athletic Association has developed an installment plan for faculty and staff members. A deposit of \$5 accompanying the application will automatically reserve a priority for seats. The balance of \$7 may be paid anytime before July 31. Sale of season tickets ends on Aug. 31.

Provisions have also been made for the purchase of parking space at the stadium. Although individual cars will be charged \$1.00 per game, those holding season tickets may purchase a space for all four games for \$3.00. Special stickers applying only to one game at a time will be provided to the holder of the special permit.

Further information may be obtained from the Athletic Association office, 249 Recreation Building, UN 5-7567.

► **OPEN HOUSE:** An open house at the new Meats Laboratory on Three-Mile Road, east of the new stadium, will be held on Tuesday, April 5 from 4 to 5 p.m. The department of animal husbandry and the Block and Bridle Club are cooperating in the program.

► **HOME EC:** The annual College of Home Economics Spring Weekend will begin Friday, April 8 at 9 a.m. and continue until 5 p.m. on Saturday, April 9. Theme of this year's program is

(Continued on page two)

Reading program draws attention

AT the halfway mark of the current television series on the teaching of reading in the schools (WFBG-Altoona, Saturday, 9-9:30 a.m.) Dr. Lyman C. Hunt, Jr., associate professor of elementary education, is gratified by the reception accorded the program in the Channel 10 area.

"Our satisfaction with the results," Dr. Hunt says, "stems not so much from the comments we are getting as from the fact that genuine interest is being shown in what we are doing."

The program is most unusual in that it is educational television in a new role—that of suggesting ideas to teachers. If it also teaches children and parents, which it seems to be doing, this is strictly a happy by-product.

"There are several television programs throughout the country designed to teach reading," Dr. Hunt says, "but to my knowledge this is the only one intended for teachers. At the same time we are conducting the program, we are also attempting a research study to determine whether television can be used for this purpose. What we find could have profound effects on the educational process."

Assisting the study in a vital role is Mrs. Phyllis Parkin, College Area School teacher, who is on leave for this project. She is one of the many experienced teachers taking part, either as teachers on the telecasts, as critic-viewers, or as non-viewers who serve as a control group. In all, some 213 teachers in the Channel 10 area, which covers 30 Pennsylvania counties and serves 700,000 families, are a part of the research

project; all have had experience in reading instruction, some for many years. Divided into equal groups of viewers and non-viewers, the teachers in both groups have shown a tremendous interest in the project.

"Frankly," says Mrs. Parkin, "most of the teachers wanted to be in the viewing group. But eventually all those who have participated as non-viewers will have an opportunity to see kinescopes of the programs, but that will be sometime after May 28 when the program comes to an official close."

Each Saturday a teacher from the College Area schools, with a representative group of children from her class, illustrates a significant phase of her reading program. This is completely live, and unrehearsed. The only preparation is a prior exposure to the studio, lights, and cameras, so that these will be no novelty on the day of the show.

During the program, the reading instruction methods considered most adaptable to the individual child are illustrated to the viewers. In some cases the methods shown may conflict with those used by many teachers, since there is far from complete agreement among educators as to what is the "best" method of teaching reading.

"Because of this controversy," says Dr. Hunt, "it is to be expected that there will be criticism of the methods we are using. That in itself is valuable in that it is stimulating greater discussion of reading instruction."

Some of the comments already volunteered by teachers show that they are

(Continued on page two)



On a recent Saturday morning, Miss Sophia Dilling, standing right, brought six youngsters of her third grade at Corl Street school to the television studios in Sparks building for the program, "From the Bookshelves." Mrs. Phyllis Parkin, standing center, on leave from the College Area Schools, is assisting in the program.

News —

(Continued from page one)

"Families Away from Home." Featured speaker is Dr. Norbett L. Mintz, department of social relations, Harvard University, who will speak on Friday at 4:15 p.m. in Schwab Auditorium on the subject, "Psychological Effects of Surroundings."

Also included in the program is a tour of the new Home Economics South building.

► **CHOIR:** The second of four Lenten-Easter Services will be held in the Helen Eakin Eisenhower Chapel on Thursday, April 7 at 4:15 p.m. with the Meditation Chapel Choirs presenting the "Stabat Mater," by Caldara. Soloists will be Gale Leister, Gail Wert, Samuel Gordon, and Harry Gerber.

On Palm Sunday, April 10 at 10:55 a.m., the Meditation Chapel Choirs will also provide the music and Rev. Preston N. Williams, acting University chaplain, will give the meditation. At 8 p.m. in Schwab Auditorium also, the Chapel Choir will sing music of representative English composers. Liturgists for this service will be Rev. Williams and John H. Frizzell, chaplain emeritus.

► **SENATE:** The University Senate will meet on Thursday, April 7 at 4:15 p.m. in Room 121 Sparks.

► **CONCERT:** The annual Spring Concert of the Penn State Women's Chorus, directed by W. Paul Campbell, will be given on Sunday, April 3 at 3 p.m. in Schwab Auditorium.

The Chorus of 150 voices will present a varied program of religious, folk, and traditional spring music, and several Penn State songs. Piano accompanists will be Mary Ann Zook and Gloria Feibus. Ensemble, as well as choral, numbers will be sung, and several numbers will call on French horns and violins for accompaniment.

Among the songs to be sung are "Poor Wayfaring Stranger," "Bendemeer's Stream," and Bach's "Sheep and Lambs May Safely Graze."

► **ALUMNI:** Contributions from alumni have passed the \$163,000 mark this year, raising to \$1,325,000 the amount provided by them for University projects since the inception of the program in 1953. The current fiscal year for alumni giving ends on June 30.

Contributions from alumni in the Corporate-Alumnus Gift Matching Program have totalled over \$7,700 from 172 alumni in 27 companies. Since the several companies have different policies on matching alumni contributions, the total amount which will be provided by these companies is not yet known.

► **SEMINAR:** Dr. Irene E. Harms, professor of child development, will be the speaker on the College of Home Economics Research Seminar on Tuesday, April 5, at 12:30 p.m. in dining room "A", Hetzel Union Building.

She will speak on "Development of Individuals Who, as Infants, Lived in Home Management Houses at Penn State: A Preliminary Report."

► **LIBERAL ARTS:** The faculty of the College of the Liberal Arts will meet on Wednesday, April 6 at 4:15 p.m. in Room 121 Sparks.

► **REPORT:** A request has been made by Col. L. E. Bolduc, chief of the Campus Patrol, that owners of station wagons which are registered with the Patrol report their new license number. The request applies only to new station wagons since these are the only vehicles to obtain new licenses this

Reading—

(Continued from page one)

giving serious consideration to what they are seeing; for example:

"I like the personal attention being shown to the child."

"The personal attention is fine, but how can you do this in a class of 30 or 40 students?"

"I particularly like watching other teachers at work."

"Where can we get all the reading materials you suggest?"

"You have developed a very warm feeling in your classroom."

To answer the question about personal attention, a number of short films taken in actual classrooms have been made to show that even in larger classes personal attention is feasible. These films are being shown on the program, the only "non-live" parts of the broadcasts.

"The concern with special problems," says Mrs. Parkin, "reflects the teachers' interest in the five or ten per cent of children who have difficulty recognizing words. Actually, reading problems also exist in two other areas: understanding the meanings of the words, and reacting to these meanings. Many youngsters need help somewhere along the line."

The methods suggested in the programs emphasized individual development to a high degree and the importance of the selection by the child of his own reading materials. Obviously, this requires a wide variety for a class of 30 or 40 youngsters.

"In one class I visited recently," relates Mrs. Parkin, "a boy developed a special interest in a catalogue which gave descriptions and prices of animals

year. The phone number of the Patrol office is UN 5-5458.

► **INGE:** Penn State Players will present William Inge's "The Dark at the Top of the Stairs," beginning Friday, April 1 at Center Stage and continuing each weekend until May 14. Performances are presented at 8 p.m. each Friday and Saturday.

► **THESPIANS:** Cole Porter's Broadway hit, "Kiss Me Kate," which opened on Thursday, will continue at Schwab Auditorium at 7:30 p.m. Friday and Saturday, April 1 and 2 and there will also be a matinee performance on Saturday at 2 p.m.

► **MILTON:** Dr. John Diekhoff, professor of English, Western Reserve University, will speak on "The General Education of the Poet: John Milton" at the next English Colloquium on Tuesday, April 5 at 7:30 p.m. in the Nittany Lion Inn.

as pets. From the interest in the catalogue, the teacher guided him into books about the animals he had seen, and his reading progress was quite normal. The catalogue was probably the spark he needed to stimulate an interest in reading."

Although the programs are planned expressly for teachers, and no compromises in script or picture are made for the general public, it is obvious that the audience is a varied one. School supervisors are watching, and making comments, some commendatory and others critical. It is significant, however, that they are taking time from their busy schedules to watch, and the fact that they are watching demonstrates there is currently a tremendous interest in reading instruction.

Parents, too, are watching and asking questions. Many want to know the reasons certain methods are used, or what books they should provide their children, or how they can help in the educational process.

A highly objective evaluation of the usefulness of television to inform teachers is going to be difficult, Dr. Hunt agrees, but if the enthusiasm of the teachers participating is any criterion, the proof is already at hand. A number of those who have been on the telecasts have said that preparing for the programs has in itself been helpful in their teaching.

Since the programs are telecast over such a wide area, teachers of many school districts can see them. In terms of numbers, probably no single instructional program has had the potential of such far-reaching results, not only for the present generation of children but for many to come.

Items of Interest

• Books

Anne R. Free, home economics, "Social Usage," published by Appleton-Century-Crofts.

S. W. Fletcher, emeritus, "The Philadelphia Society for Promoting Agriculture, 1785-1955," published by the Society.

E. H. Freund, philosophy, a book on ethics, "The Balanced Life" published by the Philosophical Library.

• Honors and Awards

J. D. Lawther, Physical Education and Athletics, the Honor Award of the Penna. State Association of Health, Physical Education, and Recreation, for his outstanding contributions to the profession.

• Elected or Appointed

H. H. Chapman, Jr., Romance languages, appointed official delegate of the University at the 1960 Northeast Conference on the Teaching of Foreign Languages, April 8-9, in Atlantic City.

R. B. Dickerson, Agriculture, elected to a three-year term on the resident instruction committee on policy for the American Association of Land Grant Colleges and State Universities.

R. W. Wherry, commerce and management, appointed chairman of a committee of university professors which will advise the commissioner of insurance for Pennsylvania relative to examination standards for agents and brokers.

L. E. Jackson, Agriculture, appointed one of the incorporators of the Agricultural Hall of Fame now under construction near Kansas City, Kansas.

Frances M. Andrews, music education, appointed to a three-year term as adviser to the educational policies commission, National Education Association.

Simon Belasco and Albert Valdman, Romance languages, appointed directors of the Linguistic programs of the NDEA Institutes at Colgate University and Oregon University, respectively, this summer.

P. W. Fletcher, forestry, appointed to three-year term on the Northeastern Forest Research Advisory Council.

R. A. Bartoo, forestry, named chairman-elect of the Allegheny Section, Society of American Foresters.

R. N. Jorgensen, wood technology, appointed chairman of the Education-Employment Committee, Forest Products Research Society, Northeast Section, and also Trustee of the section.

R. R. Kountz, sanitary engineering, appointed to the Standard Methods Committee, Water Pollution Control Federation.

• Articles and Papers

J. H. Dahmus, history, an article, "John Wyclif and the English Government," in the January issue of "Speculum: A Journal of Medieval Studies."

R. B. Dickerson, Agriculture, an article, "Agriculture Calling Young Americans," in the Spring issue of Esso Farm News.

W. F. Workmaster, Penna. Historical Collections, an article "Grover Cleveland: American Victorian," in "The Historian," February issue.

H. P. Zelko, speech, a booklet titled "Guide to Successful Speaking" published by the professional agricultural journal, County Agent and Vo-Ag Teacher.

J. S. Nisbet and H. I. Tarpley, electrical engineering, and J. B. Brennan, engineering mechanics, co-authors of a paper, "High Frequency Strain Gage and Accelerometer Calibration" in the January issue of the Journal of the Acoustical Society of America.

H. B. Curry, mathematics, a paper on "Logic in Mathematics" on April 1 at Boston College's Academic Year Institute for Mathematics Teachers.

E. L. Mattil, an article in the University of Kansas Bulletin of Education, winter issue, on "Human Values in Art Education."

L. W. Hu, engineering mechanics, a paper on current research contributions in the field of plasticity, at a Symposium on Plasticity sponsored by the Office of Naval Research and Brown University.

C. G. Corle, education, a paper on "Thought Processes of Sixth Grade Pupils While Solving Verbal Problems in Arithmetic," at the 38th annual meeting of the National Council of Teachers of Mathematics on April 20-23.

Martin Weinberger, art and architectural history, a paper on "Nicola Pisano and the Tradition of Tuscan Pulpits" in the March issue of the Gazette des Beaux Arts.

J. L. Brown, Jr., and R. O. Richards, engineering research, a paper titled, "The Design of Directional Arrays," in the December issue of the Journal of the Acoustical Society of America.

H. A. Panofsky, meteorology, an article, "On the Structure of Turbulence in Electrically Neutral, Hydrostatically Stable Layers," in the December issue of the Journal of Geophysical Research; also an article with Raymond J. Deland, on "One-Dimensional Spectra of Atmospheric Turbulence in the Lowest 100 Metres" in Advances in Geophysics.

W. W. Hassler, history, an article, "General Richard H. Anderson," for the new edition of the Encyclopedia Britannica.

A. H. Brayfield, psychology, the section on "Applied Psychology," in the same publication.

• Lectures and Talks

W. P. Simons, Continuing Education Services, a talk on "The Function of the Allentown Center" at a meeting of the Allentown Lions Club.

H. A. Cutler, General Education, a talk on "The Revolution in Work and Leisure," before the annual Middle Atlantic District Recreation Conference.

F. H. Cook, business law, a talk on "Financing Business Operations" at the fifth session of an Administrative Management Program for Small Business Executives at Ogontz Campus.

E. L. Mattil, art education, two lectures on "Art in Elementary Education," before Akron, Ohio, art and elementary teachers, Mar. 29.

Aaron Druckman, philosophy, a lecture before the Societe Romande de Philosophie of Geneva, Switzerland, on "Racial Segregation and Philosophies of Freedom in the United States."

M. S. Osborne, architecture, spoke on "Pennsylvania Architecture" before the faculty and students at the Wyomissing Center.

W. A. Weyl, mineral industries, a talk before the research scientists of the experimental stations of E. I. DuPont de Nemours and Co. at Wilmington, Del., on "The Kinetics of Melting and Nucleation."

F. J. Remick, nuclear reactor, a talk on the research at the Reactor, to the Clinton County Engineering Society, in Lock Haven.

W. J. DeLacy, education, a talk on "The Role of the School Study Council in the Improvement of Public Education" at a meeting of the school administrators of McKean County.

M. S. Osborne, architecture, a panel speaker on the subject, "The Interior Architect in Practice," at a symposium sponsored by the American Institute of Architects, the Architectural League, Parsons School of Design, the American Institute of Decorators, the Industrial Designers Institute, and Pratt Institute.

Personnel matters

Nora E. Wittman, assistant professor of German, has resigned, effective Mar. 25, to accept a teaching position at Kent State University, Kent, Ohio.

Herman C. Kranzer, assistant professor of education, has resigned, effective in June, to accept a position as associate professor of elementary education at Temple University.

E. Lynn Nutter, instructor in zoology at Ogontz, has been appointed admissions counselor, and **Julian E. Turner**, instructor in engineering, has been named coordinator of student employment.

Calendar

Friday, April 1

Thespians production of "Kiss Me Kate," 7:30 p.m., Schwab Auditorium.
Center Stage production of William Inge's "The Dark at the Top of the Stairs," 8 p.m.
Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. George M. Maxey, professor of geology, U. of Illinois, on "The Geology of Water and Its Importance to Our Industrial Civilization."

Saturday, April 2

Winter Courses banquet, 12 noon, HUB ballroom. Speaker, William L. Henning, State Secretary of Agriculture.
Thespian Show, "Kiss Me Kate," 2 p.m. and 7:30 p.m., Schwab Auditorium.
Center Stage production of William Inge's "The Dark at the Top of the Stairs," 8:00 p.m.
UCA Forum Series, "The Christian and the Problems of Contemporary Culture," 8:15 p.m., Helen Eakin Eisenhower Chapel. Dr. William Muehl, professor of political theology, Yale University, on "Religious Loyalty and the Political Office Holder."
Mid-semester below grades due.

Sunday, April 3

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Rev. Donald McIlvride.
Roman Catholic Mass, 9 a.m., Schwab Auditorium.
Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. William Muehl, professor of practical theology, Yale University.
Concert by the Women's Chorus, directed by W. Paul Campbell, 3 p.m., Schwab Auditorium.

Monday, April 4

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Herbert Albrecht, director of agricultural and home economics extension, on "Agriculture Is Everybody's Business."
Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A", Mr. M. P. Gaus, on "Thermal Stresses in Bodies Having Inclusions."

Tuesday, April 5

Open house at new Meats Laboratory, sponsored by the department of animal husbandry and the Block and Bridle Club, 4 to 5 p.m.
Five O'Clock Theatre, 5 p.m., Little Theatre in Old Main. "Rich Man, Poor Man, Beggar Man, Thief . . ." by James T. Miller, junior in English composition.
English Colloquium, 7:30 p.m., Nittany Lion Inn. Dr. John Diekhoff, professor of English, Western Reserve University, on "The General Education of the Poet: John Milton."
College of Home Economics Research Seminar, 12:30 p.m., dining room "A", HUB. Dr. Irene E. Harms, professor of child development, on "Development of Individuals Who, as Infants, Lived in Home Management Houses at Penn State: A Preliminary Report."
Geophysics and Geochemistry Seminar, 3:15 p.m., Room 121 Mineral Industries. Robert Woodtli, on "Prospecting for Mineral Deposits in the Congo."
Physics Colloquium, 4:15 p.m., Room 117

Osmond. Dr. Haskell B. Curry, research professor of mathematics, on "The Interrelationships of Mathematics, Logic, and Science."

Wednesday, April 6

Meeting of the faculty of the College of the Liberal Arts, 4:15 p.m., Room 121 Sparks.
Forestry Convocation, 11 a.m., Room 121 Sparks. Dr. Wolfgang Koehler, Forestry Secretary, Embassy of the Federal Republic of Germany, Washington, D.C., on "European Common Market and Its Implications on European and World Trade."

Thursday, April 7

Graduate Mining Seminar, 3:20 p.m., Room 24, Mineral Industries. M. G. Alvarez, Jr., on "Control of Contagious Disease."
Philosophy Colloquium, 4:15 p.m., Room 2, Sparks. Dr. Jose Ferrater-Mora, professor of philosophy, Bryn Mawr College, on "Philosophy as a Point of View."

Friday, April 8

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. J. F. Schairer, Geophysical Laboratory, Washington, D.C., on "Progress on Rock-Forming Pyroxene Systems."
Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. Dr. Edward Bernstein, formerly director of research and statistics, International Monetary Fund, on "Some Current Problems of the International Economy."

Television Broadcasts

WFBG-TV, CHANNEL 10

Saturday, April 2—"From the Bookshelves," with Dr. Lyman C. Hunt, 9-9:30 a.m.

Monday, April 4—Also Wednesday and Friday, course in "Personal Finance," 9-9:50 a.m. Lecturers: A. L. Williams and R. H. Wherry.

Monday, April 4—Also Wednesday and Friday, news-interview program, "Postscript," with Marlowe D. Froke, 9:50-10:00 a.m. Guests: Jeannette Veatch, Judith Leventman, and John F. Corso.

Monday, April 4—Also each week day, the Farm, Home and Garden program, 12:30-1:00 p.m. Guests: Lura Leitzel, Allen Bauer, Janet Tritt, John Rosenberger, and Paul Reber.

Thursday, April 7—TV Guidelines (Channel 4)—8:30 p.m. Guests: Marlowe Froke and Edna Isenberg.

Next Month

April 8-9—Home Economics Spring Weekend.
April 10—Chapel Choir Easter program. 8 p.m., Schwab.
April 13—Recess begins 12 noon, ends April 20, 12:15 p.m.
April 21—Lecture by Olaf Mickelsen, National Institute of Arthritis and Metabolic Diseases, 8 p.m., Room 121 Sparks.
April 22—Lecture by Hugo Weisgall, 8 p.m., HUB assembly room.
April 24—Glee Club concert, 3 p.m., Schwab.
April 26—Artists Series, Catherine Crozier, organist, 8:30 p.m.; also April 27.
April 28—Sigma Xi banquet, Nittany Lion Inn.
April 29—Penn State Singers, madrigal concert, HUB assembly room, 8 p.m.

► **CONSERVATION:** Currently the University is waging a campaign to reduce the heating fuel bill by inspecting the heat control systems and adjusting or replacing controls which cause overheated conditions in buildings on campus. However, this program will take some time. Therefore, in the interest of personal comfort as well as to aid in reducing fuel bills, faculty and staff members are asked to report any office, laboratory, or shop which is unusually warm because the heating system is operating when not needed. An inspector will be sent immediately. Call UN 5-5411.

► **SEMINAR:** The 10th annual Newman's Seminar, which this year will stress labor-management problems, begins on Friday, April 1. Sponsored by the Pennsylvania Society of Newspaper Editors, Pennsylvania Newspaper Publishers' Association, and the School of Journalism, the Seminar will bring a number of experts on labor-management affairs to the campus. The Seminar will continue on Saturday.

► **FORUM:** Dr. William Muehl, professor of practical theology at Yale University, will be the next speaker in the current University Christian Association Forum Series on "The Christian and the Problems of Contemporary Culture."

He will speak on Saturday, April 2 at 8:15 p.m. in the lounge of the Helen Eakin Eisenhower Chapel on the subject, "Religious Loyalty and the Political Office Holder."

► **AQUACADE:** The annual Spring Aquacade sponsored by the Women's Recreation will be held on Thursday, Friday, and Saturday, April 7, 8, 9 at 8 p.m. in White Hall. Tickets will be available at 101 White Hall a few days before the event.

faculty BULLETIN

Vol. 47, No. 27 April 1, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

ARTHUR F DAVIS
229 RECREATION

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

News in Brief

► **MAJOR MEDICAL:** Nearly 2400 acceptances of the proposed Major Medical Expense Insurance plan have been received at the office of the division of employee benefits but many more are needed before the plan can go into effect, says J. William Wilson, supervisor of the division.

If the plan is to begin on May 1, as originally intended, acceptances will have to be mailed or presented to the division, 304 Old Main, by April 15, Wilson points out.

Faculty or staff members who are members of the present Hospital-Surgical plan are eligible for Major Medical Insurance, but 75 per cent of those eligible must accept the plan before it will go into effect.

An opportunity to obtain more information about the plan is available to those who have not already sent in their acceptance cards. Meetings to explain the plan will be held on Tuesday, April 12, at 7 p.m. and Thursday, April 14, at 4 p.m., in Room 303 Willard.

► **BIOLOGY:** The director of the famous Longwood Gardens at Kennett Square, Pa., Dr. Russell J. Seibert will speak on the current research at the Gardens on Monday, April 11, at 4:15 p.m. in Room 112 Buckhout. The talk is another in the current series of Biological Sciences Lectures.

► **ALUMNI:** The Spring Session of Alumni College will be held on April 21 to 23 on the theme, "America as a Civilization: The Public Philosophy."

Lecturers on the program will include
(Continued on page three)

Students have high potential

OF the nearly 4,500 freshmen admitted to baccalaureate programs of the University last fall, 45.1 per cent were in the upper fifth of their high school class and 81.0 per cent in the upper two-fifths.

The contrast of those statistics with comparable figures of five years ago, when the percentages were 36.0 and 66.5, demonstrates sharply the improved potential of the entering classes. Another way to make the same point is that the percentage of entering students from the lower two-fifths of their classes has dropped from 11.2 to 4.5 in the same period.

These and other statistics support the view that Penn State is getting better students, in terms of potential, than it did only a few years ago.

"The facts and figures raise some very serious questions for us," says Dr. Donald H. Ford, Director of the Division of Counseling.

"For example, how high should we raise our standards for admission and graduation in the future, and on what basis can the judgments be made? Is there creeping inflation in academic standards, and if so, at what level should it be stopped, and how? What can we do to develop more fully and to challenge that significant percentage of each entering class who have the potential to develop intellectual skills comparable to that of our fine faculty?"

Good Index

Although the high school ranking has proved over the years to be a good measuring stick for admission purposes, there are additional indices that also suggest the intellectual potential of incoming students is increasing. Last summer 106 freshmen-to-be were randomly selected as representing the entire freshman class. The Wechsler Adult Intelligence Scale, the best such test now available, was individually administered and scored. Results of this test are translated into IQ ratings which are comparable to, although usually slightly lower than, IQ tests of other types. Therefore, the comparisons which follow are generally conservative.

"The average WAIS intelligence quotient of the 106 freshmen was 119," says Dr. Harvey Wall, the psychologist who conducted the study. "Compared to the general population, our average freshman has an IQ as high as or higher than 90 per cent of people generally. Practically all of our freshmen have IQs higher than the average of the general population. Thus, fifty per cent of our freshmen, one out of every two, comes from the top ten per cent of the gen-

eral population in intellectual potential." (Wechsler classifies these with an IQ of 120 or higher as "superior" or "very superior.")

Another study which is helpful in evaluating our freshmen is that reported by the Commission on Human Resources and Advanced Training. The report, which has been widely read, was prepared by Dael Wolfe. In studying the intelligence of thousands of graduate students throughout the country, estimates were made of performance on the Army General Classification Test (AGCT), a group intelligence test which correlates highly with the Wechsler test. Comparisons with his data are interesting.

Conservative

"Scores on the WAIS and the AGCT are not strictly equivalent. The WAIS is a more difficult test, and scores on it would typically be lower at higher ranges of intelligence. Thus, our comparisons with graduate students represent conservative statements," says Dr. Wall. "Comparisons with Wolfe's data indicate that over 75 per cent of Penn State freshmen have an IQ which falls within the range of the graduate student population. Of course, this includes graduate schools with widely varying standards, although all disciplines are included. Perhaps a more significant comparison with Wolfe's data is that 25 per cent of Penn State freshmen have intellectual potential which falls within the range of Ph.D. graduates in Chemistry, and Biological and Physical Sciences, combined."

How *this* freshman class will do at Penn State remains to be seen. The trend toward an improved potential among freshmen has been going on for some years, especially so in the past decade, and yet by several yardsticks this increase in potential hasn't been reflected in improved grades. As pointed out previously in the Faculty Bulletin, the percentage of A's, B's, C's, and other grades has remained essentially the same for ten years.

Honor Rolls

A second measuring stick is the percentage of students on the honor rolls of the several deans. A semester average of 3.5 or better (2.5 in years before the present grade system was adopted) is required to make this list. Below are statistics for fall semester of the past ten years, showing the number of students on the honor roll, the undergraduate enrollment (including that at the other campuses for the past two

years) and the percentage of students on the rolls:

Year	No. on Dean's List	Enrollment	%
50-51	703	9,427	7.47
51-52	672	9,932	6.78
52-53	641	9,899	6.49
53-54	737	9,970	7.42
54-55	790	10,422	7.59
55-56	760	10,969	6.95
56-57	780	11,399	6.84
57-58	810	12,222	6.64
58-59	*832	*15,780	*5.27
59-60	*1005	*16,024	*6.26

* includes students at other campuses

A third tabulation also fails to show any significant improvement in the grades of Penn State students, in spite of an apparently better potential. Listed below are the fall semester averages of all undergraduate students, all men, and all women since 1951.

Year	All Men	All Women	All-U.
*1951	2.29	2.59	2.35
*1952	2.23	2.66	2.33
*1953	2.27	2.65	2.37
*1954	2.29	2.62	2.38
1955	2.30	2.61	2.37
1956	2.31	2.64	2.39
1957	2.29	2.52	2.35
1958	2.25	2.57	2.33
1959	2.33	2.65	2.43

* based on the old grading system, corrected by adding one grade point.

"It appears," says Dr. Ford, "that there has been no real change in the grades students acquire, unless the past semester indicates a trend. There may be a number of reasons for this. One good possibility is that our faculty has gradually increased its requirements so that an A, B, C, or D in 1959 may represent a higher level of performance than the same grade did in 1951. It is perfectly reasonable to strive to establish high standards, but we should have some criteria by which to determine when our standards are high enough. Another possibility is that although they are bright, our present students are less well-prepared than those in the past. There is almost no evidence to support this possibility. A third possibility is that though well-prepared, our bright students were not adequately challenged in high school and therefore were not trained adequately to cope with rigorous and demanding academic requirements. While I believe this to be true to some extent, I doubt if it is any more true now than it was in previous years.

"Despite the questions these data raise, one thing seems clear. Penn State has a student body with intellectual potential that we can proudly compare with students in other top American universities."

Attitudes on family life given

STUDENTS at University Park, Pa., and halfway around the world in Burma, both men and women, agree wholeheartedly that the husband should be the head of the family, but the honor doesn't extend to getting out of doing some housework.

Dr. George A. Theodorson, assistant professor of sociology, learned this in a preliminary study of some 1,600 students at Penn State and at the University of Rangoon, Burma, who filled out an 80-part questionnaire designed to reveal their attitudes on family life. The Burmese sample is as yet only a pretest, and Burmese colleagues of Dr. Theodorson's are presently administering the additional questionnaires necessary for the complete study.

An overwhelming 90 per cent of the men and 84 per cent of the women here said they thought the husband should be the head of the family and in Burma the figures were 90 and 94 per cent.

"We also asked the students if the husband should be willing to help with the housework," says Dr. Theodorson, "and 70 per cent of the men and 58 per cent of the women at Penn State agreed he should.

"Perhaps somewhat surprising are the results from Burma: 80 per cent of the men and 86 per cent of the women said yes."

Complete results and interpretations of the data obtained by Dr. Theodorson are yet to be developed but the preliminary indications are that rather interesting answers are forthcoming.

For example, to the statement "Most men understand women pretty well," only 27 per cent of the Penn State men and 32 per cent of the women agreed (32 and 43 per cent for the Burmese). (The students were asked to indicate their answer as "strongly agree," "agree," "uncertain," "disagree," or "strongly disagree."

Wife should know

Is the husband obliged to tell his wife where he has been if he comes home late? Sixty per cent of the American women students said he should, but interestingly, so did 60 per cent of the men. And in Burma the figures were 73 and 91 per cent!

Dr. Theodorson undertook the study, which is supported in part by grants from the Central Fund for Research and the Social Science Research Center, to add to the knowledge of attitudes toward family life. He says, "Attitudes and actual behavior are often not the same, but both aspects are related to each other and both must be studied

for a complete description and understanding of human behavior.

"Similar studies with married people may well reveal an entirely different, although not inconsistent, set of attitudes. To a sociologist, attitudes are extremely important.

"The information we get in this study will be useful in showing the way the young educated men and women view their own future roles in the family."

Modifications

The American students queried were those in introductory and advanced sociology courses, in psychology courses, and various dormitory groups. One segment of the replies is from students at other American universities. Dr. Theodorson initiated a similar study among the University of Rangoon students during his stay in Burma as a Fulbright lecturer a year ago (See Faculty Bulletin, Dec. 4, 1959).

"It was necessary to make some modifications of the questions for the Burmese," he says, "because of the difference in the culture and philosophy. One can't just ask Burmese young men and women if, for example, it is wrong to kiss on a first date. In a society with strong disapproval of the dating system and with strong family involvement in the mating process, the question itself would bring deep embarrassment."

On a number of the questions in the American sample there was sharp or reasonable disagreement between men and women students. On the subject of the husband (the titular head of the family!) handling the finances, 11 per cent of the American men and 22 per cent of the woman disagreed. A similar question put to the Burmese brought somewhat stronger disagreement: 33 per cent of the men and 45 per cent of the women.

Dr. Theodorson was considerably surprised to obtain on one question 100 per cent agreement among the American students. This was: A woman should be as concerned with her appearance after marriage as before. Among Burmese students the percentage was much lower.

Other interesting results were the following:

"My parents were very happily married." American men and women agreed by 80 per cent; Burmese slightly more agreement.

"In my family my father was the boss." American men agreed, 67 per cent, women 54; Burmese women agreed more than the men. (Dr. Theo-

(Continued on page four)

News —

(Continued from page one)

Dr. Clinton Rossiter, professor of American institutions at Cornell; Ralph D. Hetzel, executive vice-president of the Motion Picture Export Association; Dr. Neal Riemer, professor of political science; Dr. Vernon Aspaturian, associate professor of political science; Dr. Frank Sorauf, assistant professor of political science; Lawrence E. Dennis, vice-president for academic affairs; and John Osman, vice-president for the Fund for Adult Education.

A series of seminars which will follow the lectures will be led by the following faculty members: Dr. M. Nelson McGeary, head of the department of political science; Dr. Robert K. Murray, head of the department of history; Dr. John A. DeNovo, associate professor of American history; Dr. Cyril F. Hager, director of the Center for Continuing Liberal Education; and Dr. Robert W. Iversen, professor of adult education and social science.

► **PRIESTLEY:** Dr. Eugene G. Rochow, professor of chemistry, Harvard University, will deliver the 1960 Priestley Lecture Series, April 25-29. Subject of the series is "Unnatural Products: New and Useful Materials from Silicon."

This is the 34th series and it will be dedicated to Dr. Wheeler P. Davey who inaugurated the series in 1926. Dr. Davey served on the faculty until retirement in 1949 and he died last year.

Dr. Rochow has been at Harvard since 1948 and has engaged in research on organosilicon compounds, silicates, and related compounds of germanium and tin.

► **PAN AMERICAN:** Observance of Pan American Week, April 11-15, will be symbolized on campus with the raising of the flags of the 21 American republics on Tuesday, April 12 at 11:50 a.m. on the lawn in front of Old Main.

Students from Latin American countries will raise the flags of their respective nations. Cooperating in the observance are the Committee on International Understanding, the Inter American Club, and the Reserve Officers Training Corps. The R.O.T.C. Band will play.

Chairman of the program for the week is Dr. William H. Gray, chairman of International Student Affairs.

► **EASTER:** The Chapel Choir will present a special program of music of representative English composers at 8 p.m. on Sunday, April 10, in Schwab Auditorium. Liturgists for this special service will be Rev. Preston N. Williams,

acting University chaplain, and John H. Frizzell, chaplain emeritus.

At the regular Sunday morning service at 10:55 a.m. in Schwab Auditorium, the Meditation Chapel Choirs, with 104 voices, will provide the music.

For the evening service, responses for the day and the organ offertory have been written especially for this service by George E. Ceiga, University organist.

► **WRESTLING:** Tickets for the District Two Olympic Wrestling Tryouts, Friday and Saturday, April 22 and 23, are on sale at the Athletic Association office in Recreation Building. They may also be purchased by mail.

Series tickets for reserved seats in the balcony are \$5.00 and for unreserved seats on the main floor, \$4.00. Tickets for preliminaries are \$1.00 and 75c respectively; for semi-finals \$2.00 and \$1.50, respectively, and for the finals, \$2.50 and \$2.00, respectively. Preliminaries will be held at 2 and 8 p.m. on Friday; semifinals at 2 p.m. on Saturday, and the finals at 8 p.m. Saturday.

Winners and runnersup in each weight class, of which there are eight, will qualify for the final Olympic tryouts at Ames, Iowa, on April 28-30.

► **THEATRE:** Faculty and staff members are invited to the original production of "The Day of the Race," by Alice Mahachek, senior in arts and letters, at the Five O'Clock Theatre on Tuesday, April 12 at 5 p.m. in Little Theatre, Old Main.

The play, which is directed by David Raheer, graduate assistant in theatre arts, is to be performed script-in-hand. Following the pattern of last week's production, the play is a modern fable.

► **LECTURE:** Dr. Olaf Mickelsen, biochemist of the National Institute of Arthritis and Metabolic Diseases, will speak on "Age Changes in Body Composition" as the concluding talk in the Graduate Lecture Series, on Thursday, April 21 at 8 p.m. in Room 121 Sparks.

► **GLEE CLUB:** The Men's Glee Club, directed by Frank Gullo, associate professor of music, will begin a tour which will include performances at Selinsgrove, April 25; Town Hall in New York, on April 26; Tamaqua, April 27; Allentown, April 28; and Gettysburg, April 29.

The group, which is composed of more than 50 voices, will give concerts on campus on Sunday, April 24 and on Mother's Day on May 8.

► **MEETING:** The faculty of the College of Business Administration will meet on Thursday, April 21 at 4:15 p.m. in Room 111 Boucke.

► **LIBRARY:** Pattee Library will observe a restricted schedule during the Easter recess. Hours the library will be open are as follows:

Wed., April 13 — 7 a.m.-5 p.m.

Thurs., April 14 — 9 a.m.-5 p.m.

Fri., April 15 — 9 a.m. to 5 p.m.

Sat., April 16 — 9 a.m. to 12 noon.

Sun., April 17 — Closed.

Mon., April 18 — 9 a.m. to 5 p.m.

Tues., April 19 — 9 a.m. to 5 p.m.

► **MUSIC:** Hugo Weisgall, distinguished visiting professor of music, noted composer and conductor, will conclude his current series of lectures on the "Twentieth Century Lyric Theatre," on Friday, April 22 with a talk titled "Opera in America."

The lecture will be given in the HUB assembly room at 8 p.m.

► **NSF TALK:** Faculty members interested in learning the types of research programs in which the National Science Foundation is interested are invited to attend a meeting of the College of Agriculture faculty on Thursday, April 14 at 4:15 p.m. in Room 109 Armsby. Dr. John T. Wilson, assistant director for biological and medical sciences, will explain the Foundation's program.

► **SCIENCE:** Dr. Henry Margenau, distinguished visiting professor in the physical sciences last year and currently Eugene Higgins professor at Yale, will address the combined faculties of the Colleges of Chemistry and Physics and the Liberal Arts on Friday, April 22 at 4:15 p.m. in Room 119 Osmond.

He will speak on "The Teaching of Science to Non-Science Majors."

► **DISARMAMENT:** Henri Cornil, member of the United Nations Disarmament Group, will continue the current series of disarmament discussions being held in the Helen Eakin Eisenhower Chapel, sponsored by the State College Friends Meeting Peace Committee, on Monday, April 11 at noon.

He will speak on "The Ingredients of a Successful Disarmament Agreement."

► **SUMMER:** Faculty and staff members who will have rooms, houses, or apartments available for Summer Session students this year are asked to get in touch with the Summer Sessions office in 101 Willard for applications for listing. The lists of available housing facilities are sent to prospective Summer Sessions students who request such information. Since there have already been requests for housing information, the office would like to be able to send out a list immediately. More complete lists will be sent later, however. Phone UN 5-5463 or visit the office.

Calendar

Friday, April 8

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. J. F. Schairer, Geophysical Laboratory, Washington, D.C., on "Progress on Rock-Forming Pyroxene Systems."

Home Economics Spring Weekend program. WRA Spring Aquacade, 8 p.m., White Hall. Center Stage production of "The Dark at the Top of the Stairs," 8 p.m.

Saturday, April 9

WRA Spring Aquacade, 8 p.m., White Hall. Home Economics Spring Weekend program. Varsity baseball, doubleheader, versus Syracuse, 1:00 p.m., Beaver Field. Varsity tennis, versus Maryland, 2 p.m.

Center Stage production of "The Dark at the Top of the Stairs," 8 p.m.

Sunday, April 10

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. A. H. Reede, professor of economics.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Meditation Chapel Choirs, 104 voices, in special Easter program.

Easter Service, 8 p.m., with Chapel Choir in special music program, Schwab Auditorium.

Monday, April 11

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Bernard P. Taylor, executive director of the Penn State Foundation, on "Open Wide the College Door," with colored movies.

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A". Dr. Walter Jaunzemis, on "Analytical Methods in Thermoelasticity for Transient Stress and Temperature Distributions."

Disarmament discussion, 12 noon, Helen Eakin Eisenhower Chapel. Henri Cornil, member of the United Nations Disarmament Group, on "The Ingredients of a Successful Disarmament Agreement."

Biological Sciences Lecture Series, 4:15 p.m., Room 112 Buckhout. Dr. Russell J. Seibert, director of Longwood Gardens, on current research at the Gardens.

Economics Faculty Seminar, 12 noon, dining room "B", Hetzel Union Building. Dr. Edward Bernstein, on "Problems of Monetary Policy."

Tuesday, April 12

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. T. F. Anderson, The Lankenau Cancer Research Institute, on "Structure of Bacteriophage."

Pan American Week observance, with flag raising in front of Old Main, 11:50 a.m.

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main. "The Day of the Race," by Alice Mahachek and directed by David Raheer.

Geophysics and Geochemistry Seminar, 3:15 p.m., Room 121 Mineral Industries. Robert Woodtli, on "Prospecting for Mineral Deposits in the Congo."

Meeting of Penn State chapter, American Society for Metals, 7:30 p.m., Mineral Industries Auditorium.

tries Auditorium. Dr. Fred D. Rosi, RCA Laboratories, a lecture on "Metallurgy of Semiconductors."

Wednesday, April 13

Spring recess begins at 11:50 a.m. Ends Wednesday, April 20 at 12:15 a.m.

Thursday, April 14

College of Agriculture faculty meeting, 4:15 p.m., Room 109 Armsby. Dr. John T. Wilson, assistant director for biological and medical sciences, National Science Foundation, will discuss the programs in which the Foundation is interested.

Saturday, April 16

Varsity baseball, versus Ithaca, 2:30 p.m.

Wednesday, April 20

Spring recess ends, 12:15 p.m.

Varsity golf, versus Villanova, 1 p.m. Varsity baseball, doubleheader versus Colgate, 1:00 p.m. Varsity and freshman lacrosse, versus Cornell, 3:30 p.m.

Thursday, April 21

Graduate Mining Seminar, 3:20 p.m., Room 24 Mineral Industries.

American Chemical Society, Central Pennsylvania Section, meeting, 8 p.m., Room 119 Osmond. Dr. Leo Brewer, department of chemistry, University of California.

Graduate School Lecture by Dr. Olaf Mickelsen, National Institute of Arthritis and Metabolic Diseases, 8 p.m., Room 121 Sparks.

College of Business Administration faculty meeting, 4:15 p.m., Room 111 Boucke.

Friday, April 22

Center Stage production of "The Dark at the Top of the Stairs," 8 p.m.

Lecture by Hugo Weisgall, distinguished visiting professor of music, 8 p.m., HUB Assembly Room, on "Opera in America."

Joint Chemistry and Physics and Liberal Arts faculty meeting, 4:15 p.m., Room 119 Osmond. Dr. Henry Margenau, distinguished visiting professor in the physical sciences, on "The Teaching of Science to Non-Science Majors."

Biochemistry Seminar, 3:15 p.m., Room 214 Boucke. Dr. Gerard Milhaud, Isotope Laboratory, Pasteur Institute, Paris, France, on "Calcium Metabolism."

Television Broadcasts

WFBG-TV, CHANNEL 10

Saturday, April 9 — "From the Bookshelves," with Dr. Lyman C. Hunt, 9-9:30 a.m.

Monday, April 11 — Also April 13, Course in Personal Finance, 9-9:50 a.m., Lecturer: O. O. Bowlin.

Monday, April 11 — "Postscripts," news-interview program, with Marlow D. Froke and guest, the Rev. Preston N. Williams. On April 13, Pan American Day, 9:50 a.m.

Monday, April 11 — Also each weekday, Farm, Home and Garden program, 12:30 p.m. Guests: P. H. Norton and James Becker, W. H. Folwell, John Tait, Clair Delong, and Thomas Kelly.

Thursday, April 14 — TV Guidelines (Channel 4 only), 8:30 p.m. Guest: Russell Whaley.

Sunday, April 17 — "The Soviet Challenge," 5 p.m., with panelist, Dr. V. V. Aspaturian.

Next Month

April 24—Glee Club concert, 3 p.m., Schwab.
April 26—Artists Series, Catherine Crozier, organist, 8:30 p.m.; also April 27.
April 28—Sigma Xi banquet, Nittany Lion Inn.
April 29—Penn State Singers, madrigal concert, HUB assembly room, 8 p.m.
April 30—Spring Week Carnival.
April 30—UCA Forum, with Dr. Liston Pope, Yale, Chapel, 8:15.
May 3—Meditation Chapel Choirs concert, Chapel, 8 p.m.
May 8—Glee Club concert, 3 p.m., Schwab.
May 10—Artists Series, Anton Kuerti, pianist, Schwab, 8:30 p.m.

Attitudes —

(Continued from page two)

dorson cautions that perhaps the students don't necessarily know who was the boss.)

"Men have to be careful they don't let their wives dominate them." Both American and Burmese men agreed 76 per cent; women about 61 per cent.

"If a husband and wife are unhappily married, it is best that they get a divorce." American men agreed 54 per cent; women 51. Burmese agreed more strongly.

"A wife should have a say in the selection of her husband's secretary." In answer to this question there was greater difference between American and Burmese students than on any other. Burmese students agreed, American students strongly disagreed.

Through a system of check questions in the 80 asked, plus information of a factual nature, Dr. Theodorson feels that he will have learned much about the attitudes of educated young men and women toward family life, and perhaps some of the background reasons for the attitudes. This is but one of a number of studies he hopes to make on the general subject, not only with Burmese and American students and non-student populations, but with subjects from a number of other cultures.

faculty BULLETIN

Vol. 47, No. 28

April 8, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

News in Brief

► **OUTSTANDING:** The five men who will be honored as distinguished alumni at Alumni Reunion exercises on June 18 have been selected. They include:

James C. Gray '25, administrative vice-president for raw materials, U.S. Steel Corporation, Pittsburgh.

Samuel R. Hursh '16, assistant vice-president (retired) of the Pennsylvania Railroad, at Philadelphia.

Herbert E. Longenecker '33, vice-president, University of Illinois in charge of Chicago professional colleges and president-elect, Tulane University.

C. Lee Rumberger '20, vice-president for research and quality control, member of board of directors, H. J. Heinz Co., Pittsburgh.

J. Theodore Wolfe '30, president, Baltimore Gas and Electric Co., Baltimore, Md.

► **HONOR:** Cora M. Foster, a native of State College who retired last year from military service with the grade of lieutenant colonel, is Penn State's Woman of the Year. Previous winners of this honor were Julia Gregg Brill and Mary Frear Keeler.

The medal which accompanies the honor will be presented to Miss Foster as part of the alumni reunion program in June.

A 1927 graduate, Miss Foster taught in schools in South Williamsport, Greenwich, Conn., Gainesville, Ga., Locust Valley, N.Y., and Gouverneur, N.Y. She entered the Women's Army Corps in 1942, served in a variety of capacities in Algeria, Italy, Austria, Japan, Okinawa, Washington, D.C., and Atlanta. (Continued on page three)

Rubin's press to issue novel

FEW publishers can claim the perspicacity and good fortune to be able to judge manuscripts so well before printing that every book is a success.

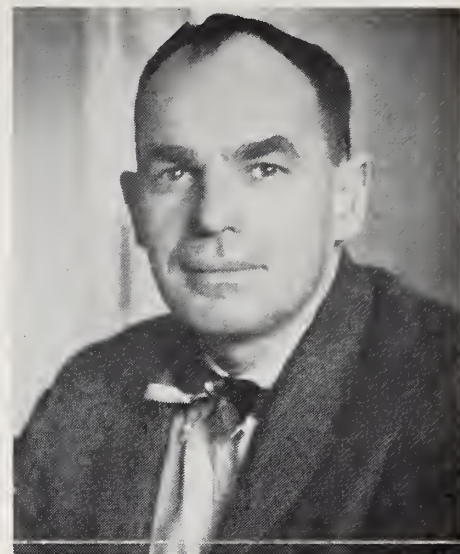
Joseph Jay Rubin, owner of the Bald Eagle Press when he is not professor of American literature, admits that in his ten years of publishing some of his books have failed to make their mark. But on the whole he has not regretted the decision that led him to follow an early ambition. "Few thrills," he says, "can top that of helping an idea hatch into a volume someone wants badly enough to buy."

Right now, Dr. Rubin is watching the career of his newest book, *Honest John Vane*, a novel by J. W. De Forest, due in the marketplaces in May. De Forest is one of the neglected authors of the 19th century who contributed work to the American literary scene many scholars believe should not be forgotten. *Honest John Vane*, a political satire of the notorious Credit Mobilier swindle of the post Civil War era, has never been reprinted since first book publication in 1875. Dr. Rubin is now preparing a second De Forest novel for publication; he hopes to print at least three, and then go on to other neglected Americana.

The decision to reprint De Forest novels is a departure from the previous policy of the Bald Eagle Press to publish original manuscripts by contemporary authors. One reason he did so is his personal interest and research on De Forest, involving voluminous manuscripts at Yale University, which graciously allowed the use of the novelist's own corrected texts. Results of research show up in Dr. Rubin's 50-page introduction to *Honest John Vane*, giving not only the background of the author but also the historical events used by De Forest. The book, therefore, is not only interesting fiction but now is also a contribution to American literary history.

Some of the other titles in the Bald Eagle Press list demonstrate the strong Penn State faculty ties the publisher has maintained: *Baudelaire on Poe*, translated and edited by Lois and Francis Hyslop; *Calhoun: Basic Documents*, by J. M. Anderson; *One Hundred Pennsylvania Buildings*, by H. E. Dickson; and *Walt Whitman of the New York Aurora*, on which Dr. Rubin collaborated with C. H. Brown.

A recent exception to the use of local authors has an international touch. *The Inward Morning* is a philosophical journal by an American with an introduction by a famous French existentialist, Gabriel Marcel.



J. J. Rubin

The total permanent work force of the Bald Eagle Press (named not for the bird but the mountain, which he can see from his study window) consists of the publisher and his wife Eleanor, who designs all of the publications. But he often calls on professional readers to advise him on what manuscripts are likely to be reasonable risks and scholarly contributions. The author or specialists are responsible for editing and proof reading. On occasion he has commissioned writers to do a certain type of book; two of his most successful titles resulted from this method.

In this day of cheaper editions, including paperbacks, Dr. Rubin takes pride in going the other direction, toward meticulous design which combines fine paper, sturdy binding, and two-color title pages. For *Honest John Vane* he purchased antique display type and special decorative symbols (of trains) to illustrate the cover and chapters. Mrs. Rubin, who is a member of the American Institute of Graphic Arts and American Institute of Decorators, tries to lavish equal care on every page of the book, not just the front matter. Several of their books have been cited for excellence of design.

Some undeniable principles have been amply proved to Dr. Rubin in his decade with the Bald Eagle Press:

1. The best manuscripts make the best books.
2. Good reviews are a major aid to sales.
3. The small publisher with limited advertising budget, is not equipped to promote the work of an unknown contemporary.

"Basic costs of printing — raw mate-
(Continued on page two)

Senate Minutes

MINUTES OF THE MEETING OF APRIL 7, 1960

The University Senate met at 4:15 p.m. on Thursday, April 7, 1960 in Room 121 Sparks Building with President Eric A. Walker presiding. The minutes of the March 10, 1960 meeting were approved as printed in the Faculty Bulletin for March 25, 1960. One hundred fifty-four senators signed the roll.

COMMUNICATIONS FROM UNIVERSITY OFFICERS

Letters naming substitutes were received from senators unable to be present and naming substitutes. The substitute is designated in parenthesis following the name of the senator: A. J. Berlin (Margaret Neuber), W. P. Campbell (W. G. Noyes), J. L. Gobble (G. W. Sherritt), H. L. Hartman (F. D. Hoyt), Barbara J. Hoepner (Jacqueline Dailey), M. W. Isenberg (L. A. Richardson), R. W. Lindsay (H. M. Davis), Dorothy J. Lipp (Norma M. Mountan), Joseph Marin (M. A. Wilkov), R. C. Miller (H. R. Purdy), H. B. Palmer (F. J. Vastola), W. H. Powers (B. E. Myers), E. R. Queer (F. A. Joy), and R. B. Saylor (O. H. Sauerlender).

Change in Senate Membership

From the College of Education a communication that C. M. Long has resigned as Head of the Department of Elementary Education, effective April 1, 1960, and that P. M. Bixby has been designated as Acting Head of the Department.

From C. M. Long requesting that he be replaced on the Senate Committee on Faculty Affairs since he will no longer be associated with the University after April 1, 1960.

REPORTS OF STANDING COMMITTEES

B. A. Whisler, Chairman of the SENATE COMMITTEE ON CALENDAR AND CLASS SCHEDULE, presented the Proposed Change in Calendar Policy which had been distributed with the agenda as Appendix "A" and moved the adoption of the recommendation to amend the present calendar policy as follows:

Sections A, B, C, F, G, H, I, K, and L, no change.

Section D. Registration. Change to read: "That final registration be conducted during four of the six days preceding the beginning of classes, but not on the day preceding classes..." (remainder unchanged).

Section E. Number of Class Periods. Change to read: "That each academic semester consist of fifteen meetings for each half-day of the week."

Section J. Time Interval Between Semesters. Change to read: "That registration for the spring semester begin on the day following the last day of final examinations for the fall semester."

It is presumed that this change would be put into effect as soon as is possible. The motion was seconded. In answer to a question by W. F. Striedieck as to whether this was part of a larger program Mr. Whisler stated this was an attempt to bring to the Senate an even number of weeks in each semester. After discussion the motion was lost.

Mr. Whisler then asked for permission to present three alternatives and to have a straw vote on each.

The first suggestion was to have classes begin on the Wednesday preceding the present Monday. This would allow approximately one week between final examinations and registration. By a showing of hands the suggestion was lost.

The second suggestion would start classes on Monday but would switch three days at the end of the semester, whereby Thursday would become Monday, Friday would become Tuesday, and Saturday morning would be Wednesday morning. By a showing of hands this suggestion was lost.

The third suggestion would eliminate the Thanksgiving Vacation. Classes would be held regularly except for Thursday, Thanksgiving Day. This suggestion met with approval.

Mr. Whisler stated that his committee will bring in a modification based on the straw vote. The complete report is on file in the office of the secretary.

Mr. Whisler then presented the Proposed Rule Concerning Conflict Examinations which had been distributed with the agenda as Appendix "B". He moved adoption of the proposed Rule 0-8 as follows:

Any student with two final examinations at the same time or with more than three

such examinations on the same day should file a request for a conflict examination at the time and place specified in advance by the University Scheduling Officer. If a student fails to file a request for a conflict examination within the time assigned for that purpose, he shall pay a charge of ten dollars (\$10) for the privilege of filing a late request for conflict examinations.

The motion was seconded. After some discussion as to whether the student is required to file a conflict at all the motion was passed. The report is on file in the office of the secretary.

C. W. Pierce, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as Appendix "C" and moved its adoption. The motion was seconded and passed. The report is on file in the office of the secretary.

James Gemmel, Chairman of the SENATE COMMITTEE ON FACULTY AFFAIRS, presented the Informational Report which had been distributed at the meeting. This report which required no action is as follows:

The purpose of this report is to inform the Senate concerning the activities of its Committee on Faculty Affairs. During its first year of infancy, the Committee has worked closely with the Administration on several matters of importance to the faculty, has considered communications from the A.A.U.P. and from the local teachers' union, and is now beginning to receive communications from College faculties and from individual faculty members relating to items of faculty welfare.

The Committee believes its major function to be twofold: (1) to provide the faculty with a direct channel of communication to the administration, and (2) to help the administration to remain sensitized to the legitimate interests of the faculty. To this end, the Committee has exchanged views with the administration on such issues as parking fines, major medical benefits, tenure regulations, and other items outlined below:

A. Recommendations Made to the Administration

1. That monthly deductions from faculty pay for hospitalization and retirement be absorbed by the University as fringe benefits with accompanying tax benefits to the faculty. (Still under study)
2. That faculty members be given an additional year to adjust to the proposed method of redistributing summer salary over a 12-month period. (Recommendation approved)
3. That names of retirees in the immediate vicinity of University Park be added to the mailing list to receive free copies of the Faculty Directory. (Recommendation approved)
4. That major medical benefits be added to the hospitalization plan. (In process)

B. Problems Being Studied by the Committee

1. Need for establishing a Faculty Club.
2. Liberalizing the retirement system by introducing vested features.
3. Need for a new auditorium of adequate capacity.
4. Need for a Disaster Loan Fund.
5. Nature and quality of fringe benefits at other comparable universities.

C. Item of Information for Faculty

During the last session of the Legislature, a bill was passed that liberalized benefits paid to survivors of deceased faculty members who have been members of the State Retirement System for at least ten years. Unfortunately no simple formula can be applied to explain the added benefits, as each individual is a separate case. The office of Frank F. Morris, 304 Old Main, should be consulted by interested faculty members.

The Colleges are reminded that the names of the elected senators are to be submitted IN WRITING to the secretary before the May 5 meeting. The secretary will read the names at the May 5 meeting. The next regular meeting of the University Senate will be on Thursday, May 5, 1960. The agenda will be distributed on April 21, 1960. The meeting adjourned at 4:51 p.m.

Robert G. Bernreuter
Secretary

► **WOMEN:** The Faculty Women's Club will hold its annual Spring Luncheon at 12:30 p.m., on Wednesday, May 4, tickets for which must be reserved by April 29. President Eric A. Walker will address the Club.

Rubin's —

(Continued from page one)

rials, press time, and even postage—have doubled in ten years," he finds. "Whether it is Alfred Knopf or Bald Eagle Press, inflation is a worry to contend with. But in a way, economic stress helps us exist. A company like Knopf just can't afford to be interested in small-run items."

One of the biggest hazards is, of course, large inventories which fail to move quickly. The publisher alone must decide how large an edition to print, and he must strike the right balance between ruinous overstocking or expensive reprinting.

"We have reached the helpful point," Dr. Rubin explains, "where many libraries and wholesalers know us and order as soon as we announce a new title. Our sales come from all parts of the British Commonwealth, from Holland, and other European countries, as well as from every part of the United States. The *Calhoun* sold to Southern law firms as well as libraries, for the statesman is an important source for a theory of minorities."

A publisher must attend to an unbelievable amount of detail. No book is without its last-minute problems. For example, when *Honest John Vane* was in press it was discovered that the brown dust jacket would not take the silver ink used on the hard cover, and so an on-the-spot change had to be made. The symbolic trains reproduced perfectly on the title page, but they blurred on the hard cover.

"I have surprised myself, though," Dr. Rubin says, "in being able to take financial risk without losing too much sleep, especially when a book doesn't sell as I hoped it would."

Because of the avowed interest in fine printing, a hand press was recently purchased and now Mrs. Rubin is able to enjoy the pleasure of actually setting her own type. Many of the Bald Eagle labels and announcements are hand set.

"I hope all of this experience will teach us more about what makes a good book," Dr. Rubin says. "I'd like to reduce the element of fortune telling and increase the proportion of right guesses—for the sake of all the books I want to publish."

► **SIMMONS:** Heinz S. Bluhm, chairman of the department of Germanic Languages and Literatures at Yale University, will be the second speaker in the 14th annual Simmons Series of lectures on Monday, April 25 at 8 p.m. in Room 121 Sparks. He will speak on "August and Otilie von Goethe: New Documents in the Newberry Library."

ta, Ga. She received many decorations and medals for her service. In September, 1959, she accepted a position teaching mathematics in Houston, Texas.

► **NSF FELLOWSHIPS:** The National Science Foundation has granted 11 graduate students Summer Fellowships for 1960 and 20 cooperative Graduate Fellowships for the 1960-61 academic year.

The Summer Fellowships were given to graduate assistants or those who have held assistantships and provide a weekly stipend of \$50 to \$75 for nine to 12 weeks of study, in addition to paying tuition.

Cooperative Graduate Fellowships were awarded to 18 graduate students, one senior, and a Smith College senior who will study here. Stipends of \$2,200 and tuition are paid by the Foundation.

► **MUSIC:** The Penn State Men's Glee Club, directed by Frank Gullo, and the Penn State Singers, directed by Raymond H. Brown, will be featured in separate concerts within the next week.

On Sunday, April 24 at 3 p.m. in Schwab Auditorium, the Glee Club will give a program of varied music, featuring also the Varsity Quartet and the 16-man Hi-Los. The entire group is composed of 50 voices.

The Penn State Singers will present their concert on Friday, April 29 at 8 p.m. in the HUB Assembly Room.

► **SCIENCE FAIR:** The seventh annual Pennsylvania State Science Fair will be held April 29 and 30. Junior and senior high school students in public, parochial, and private schools of the Commonwealth are eligible to enter the competition.

Projects will be submitted in junior and senior divisions in the biological sciences, earth sciences, physical sciences, and mathematics. Prizes will include a \$500 scholarship, a \$250 scholarship, sixteen \$50 U.S. Savings Bonds, 16 gold medals, and 16 silver medals. Judging of the projects, which will be set up in Whitmore Lab, will take place on the evening of April 29 and the following morning.

► **FILMS:** Bookings of films to be used next year are being accepted now by the Audio Visual Aids Library. Faculty members are urged to schedule films for a one-week period which will embrace the expected date of use. The exact day and time of use may be stated later. Forms requesting film service may be obtained by calling UN 5-6314.

Calendar

Friday, April 22

Center Stage production of "The Dark at the Top of the Stairs," 8 p.m.

Lecture by Hugo Weisgall, distinguished visiting professor of music, 8 p.m., HUB Assembly Room, on "Opera in America."

Joint Chemistry and Physics and Liberal Arts faculty meeting, 4:15 p.m., Room 119 Osmond. Dr. Henry Margenau, distinguished visiting professor in the physical sciences, on "The Teaching of Science to Non-Science Majors."

Biochemistry Seminar, 3:15 p.m., Room 214 Boucke. Dr. Gerard Milhaud, Isotope Laboratory, Pasteur Institute, Paris, France, on "Calcium Metabolism."

Fluid Mechanics Seminar, 4:15 p.m., Room 211 Mechanical Engineering. Dr. Huon Li, aeronautical engineering department, on "Gas Dynamics of Plasmas."

Meeting of faculty, College of Agriculture, 4:15 p.m., Room 112 Buckhout.

Mineral Industries Colloquium, 4:15 p.m., Room 26 Mineral Sciences. Dr. Albert Roberts, director of Postgraduate School of Mining, University of Sheffield, England, on "Mine Lighting — A Review of Progress in Techniques and Research in Great Britain." He will also speak at 2:15 p.m. in Room 229 Mineral Industries on the subject, "Mine Ventilation."

Olympic Wrestling Championships, District 2, 2 p.m. and 8 p.m., Rec Hall.

Saturday, April 23

Olympic Wrestling Championships, District 2, 2 p.m. and 8 p.m., Rec Hall.

Golf, versus Syracuse, 1 p.m.

Square Dance, sponsored by the Graduate Student Association, for faculty members and graduate students, 8:30 p.m., HUB Ballroom.

Sunday, April 24

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Patricia Smathers. Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Raymond B. Kistler, president, Beaver College.

Penn State Glee Club Concert, Frank Gullo conducting, 3 p.m., Schwab Auditorium.

Monday, April 25

Faculty Luncheon Club, 12 noon, dining room "A", Hetzel Union Building. Dr. Otis E. Lancaster, George Westinghouse, professor of engineering education, on "The Measurement of Teaching."

Simmons Series Lecture by Heinz S. Bluhm, chairman of the department of Germanic languages and literatures, Yale University, on "August and Ottilie von Goethe: New Documents in the Newberry Library," 8 p.m., Room 121 Sparks.

Disarmament discussion by Dr. Vaclav Mares, department of economics, 12 noon, Helen Eakin Eisenhower Chapel, sponsored by the Student Christian Association and the State College Friends Peace Committee.

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A". P. W. Hill, on "Thermal Stresses during Heating and Cooling."

Tuesday, April 26

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main. "Millie Marlowe's Dilemma," by June Miller, senior in arts and letters, directed by Jon Barry Wilder.

Geophysics and Geochemistry Seminar, 3:15 p.m., Room 121 Mineral Industries. Preview of the papers to be presented at the 1960 American Geophysical Union meetings.

Meeting of the Central Pennsylvania Section, American Society of Mechanical Engineers, 7:30 p.m., Mineral Industries Auditorium. Leonard G. Austin, instructor in fuel technology, on "Fuel Cells."

Economics Faculty Seminar, 12 noon, dining room "A", Hetzel Union Building. Dr. David Felix, associate professor of economics, Wayne State University, on "The Shift from Stable to Runaway Inflation: Some Critical Questions."

Wednesday, April 27

Artists Series program by Catherine Crozier, organist, 8:30 p.m., Schwab Auditorium.

Forestry Convocation, 11 a.m., Room 121 Sparks. Ralph Wible, State Forester, Department of Forests and Waters, Harrisburg, Pa.

Talk by William Clancy, Roman Catholic layman and editor of Worldview, on "Religion as a Political Issue," 7:30 p.m., Helen Eakin Eisenhower Chapel Lounge, sponsored by the Committee on Interreligious Affairs.

Varsity baseball, versus West Virginia; tennis, versus Bucknell; both at 3:30 p.m.

Thursday, April 28

Lecture by Dr. Martin Weinberger, visiting professor of art and architectural history, on "Self-portraits of Rembrandt," 8:30 p.m., Room 121 Sparks, sponsored by the department of art.

Talk by Dr. Howard Hoffman, assistant professor of psychology, on "Machine Produced Speech: Techniques in the Analysis of Verbal Communication," sponsored by the department of psychology, 12:30 p.m., HUB dining room "A".

Meeting of the Association of Fraternity Counselors, 12 noon, dining room "B", Hetzel Union Building.

Philosophy Colloquium 4:15 p.m., Room 212 Hetzel Union Building. Dr. William Earle, Northwestern University, on "Recognition and Existence."

Mathematics Colloquium, 4:15 p.m., Room 12 Sparks. Dr. John Oxtoby, Bryn Mawr College, on "Cartesian Products of Baire Spaces."

Lecture by Elisabeth Carroll Scott, member of the Board of Lectureship, The Mother Church, The First Church of Christ, Scientist, on "Christian Science, Its Purpose and Practice," 7:30 p.m., HUB Assembly Room, sponsored by the Christian Science Organization.

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. Francis O. Schmitt, department of biology, Massachusetts Institute of Technology, on "Macromolecular Interaction Properties."

Friday, April 29

Mineral Industries Colloquium, 4:15 p.m., Room 26, Mineral Sciences. H. A. McKinstry, research assistant, mineral constitution laboratories, on "X-Ray Fluorescence Analysis."

Fluid Mechanics Seminar, 4:15 p.m., Room 211 Mechanical Engineering. Dr. Stewart Way, Westinghouse Research Laboratories, on "Recent Investigations of M.H.D. Power Generation."

Pi Mu Epsilon meeting, 8:15 p.m., Room 10 Sparks. Lecture by Dr. John Oxtoby, Bryn Mawr College, on "Trigonometric Functions."

Concert by Penn State Singers, Raymond Brown conducting, 8 p.m., HUB Assembly Room.

Television Broadcasts

WFBG-TV, CHANNEL 10

Monday, April 25 — Also Wednesday and Friday, Course in Personal Finance, 9-9:50 a.m., Lecturer: O. O. Bowlin and J. F. Bradley.

Monday, April 25, 27, 29 — "Postscripts," news-interview program, with Marlow D. Froke.

Monday, April 25 — Also each weekday, Farm, Home and Garden program, 12:30 p.m. Guests: Howard Lockoff, Joseph Hayden, Lester Nichols, James Gallagher, Jane Marhefka, Margaret Isenhower.

Thursday, April 28 — TV Guidelines (Channel 4 only), 8:30 p.m. Guest: Glenn Sheffer, Ray Fortunato.

Next Month

April 30—Spring Week Carnival.

May 3—Meditation Chapel Choirs concert, Chapel, 8 p.m.

May 8—Glee Club concert, 3 p.m., Schwab.

May 10—Artists Series, Anton Kuerti, pianist, Schwab, 8:30 p.m.

May 12—Meditation Chapel Choirs Recital, 4:15 p.m., Chapel.

May 15—Concert by Theodore Karhan, violin, and Marcia Scholten, piano, 4 p.m., Schwab.

May 21—University Chapel Choir Concert, 8:30 p.m., Schwab.

► **REMBRANDT:** Dr. Martin Weinberger, visiting professor of art and architectural history, will speak on "Self-Portraits of Rembrandt" on Thursday, April 28 at 8:30 p.m. in Room 121 Sparks.

► **MAJOR MEDICAL:** Over 3,000 faculty and staff members have signed acceptance cards for the proposed Major Medical Insurance plan. The Employee Benefits Division, 304 Old Main, is still receiving cards and urges those who have not filled out a card and who intend to do so to return the card immediately.

Items of Interest

PATENTS

CRAIN, HARRY M., Ordnance Research Lab, a "Self De-energizing Relay," U.S. Patent number 2,928,917.

ELECTED OR APPOINTED

LOFTIS, HELEN A., home economics education, elected vice-president, Pennsylvania Association for Student Teaching.

MICHELSON, IRVING, aeronautical engineering, invited to serve on the publications committee of the American Rocket Society, Inc.

MOORE, F. B., Engineering, appointed member of Region II Accrediting Committee of the Engineers' Council for Professional Development.

MURPHY, G. E., Reading Clinic, elected Central Region vice-president of the Pennsylvania Association for Student Teaching.

WERBOFF, L. L. and ROZEN, M. E., economics, invited to take part in an advisory study for the Commission on Money and Credit, established by President Eisenhower in 1958.

YEATON, KELLY, theatre arts, critic judge of 21 plays presented at the 18th Delaware Play Festival at the University of Delaware.

LECTURES AND TALKS

BELASCO, SIMON, Romance languages, a talk on the application of linguistic science to the teaching situation, before the 40 National Defense Education Act directors and officials of the U.S. Office of Education.

BRAUN, W. G., chemical engineering, a talk titled "Factors in Solvent Extraction Operations," at a meeting of the Mid-Hudson section, American Institute of Chemical Engineers, Beacon, N.Y.

CHATT, JOSEPH, chemistry, an address before the Symposium on Inorganic Chemistry at the University of Toronto on "Alkyl and Aryl Complexes of Transition Metals"; also on that subject before the department of chemistry, University of Chicago.

FUQUA, MARY, foods and nutrition, a talk at Miami University, Oxford, Ohio, on "Nutrition — Then and Now," as part of an anniversary program recognizing 50 years of home economics at the University.

KAUFMAN, J. J., economics, a talk on collective bargaining before the Spring Institute of the Railway Operating Brotherhoods at the State University of Iowa.

KLEIN, P. S., history, an address before the Philadelphia Junta, on "James Buchanan and the Cold War, 1860."

FENSKE, M. R., chemical engineering, a talk before the Midland Section, American Chemical Society, on "Petroleum and World Energy."

HASSLER, W. W., history, a talk at St. Francis College, Loretto, on "General George B. McClellan: A Study in Civil-Military Relations, 1861-1862."

MUELLER, E. W., physics, a talk on "Field Ion Microscopy" before the Philosophical Society of Washington, D.C.; "A New Method for Studying Radiation Damage," before the Laboratory Colloquium of Los Alamos Scientific Laboratory; a lecture on "Investigation of the Atomic Details of Crystal

► **DEDICATION:** Maj. Gen. A. J. Drexel Biddle, adjutant general of the Commonwealth of Pennsylvania, will speak at the dedication on May 26 of Wagner Building, the military science facility named in honor of the late Lt. H. Edward Wagner, 1941 honor student graduate and student leader. Lt. Wagner was killed in action in France, June 28, 1944 after three years of service.

Other speakers on the program will include A. J. Caruso, executive director of the General State Authority; James B. Long, president of the Board of Trustees; Karl B. Wagner, brother of Lt. Wagner; Maj. Gen. J. C. Frank, U.S. Army Reserve Center in Harrisburg; and President Walker.

Imperfections in Refractory Metals," to the scientific staff of the Sandia Corp. at Albuquerque, N.M.

NEUBERGER, HANS, meteorology, a series of four lectures at Waynesburg College, sponsored by the National Science Foundation.

SCHEMPF, J. M., chemistry, a talk at the ninth annual convention of the Pennsylvania Association of College Chemistry Teachers at Gettysburg College on "A Fulbrighter in Pakistan."

SCHILLING, H. K., Graduate School, visiting lecturer at Baldwin-Wallace College on April 25, 26 and at Kent State University on April 27, 28.

SKELL, P. S., chemistry, a talk on "Bivalent Carbon" before the departments of chemistry at the University of Rhode Island and Brown University, April 21, 22.

THOMPSON, S. E., hotel administration, talks before the Ohio Hospital Association, April 5-7, on "Establishing Relationship to Facilitate the Purchasing Function" and "Motivation as a Tool of Management."

ARTICLES AND PAPERS

At the American Chemical Society meetings in Cleveland, April 14, papers by the following members of the department of chemistry: L. H. SOMMER, I. C. LEWIS, R. W. TAFT, JR., IRWIN FOX, P. S. SKELL, J. F. KLIBE, J. A. DIXON, P. A. NARO, LIONEL GOODMAN, and JOSEPH CHATT. Also by A. A. BENSON, agricultural and biological chemistry.

BEITTEL, K. R., art education, an article "The Creativity Complex in the Visual Arts," in Studies in Art Education; also an article on art in the third edition of the Encyclopedia of Educational Research, published this year.

BUSH, G. S., journalism, an article in the Winter, 1960 issue, of "Journalism Quarterly" on college photography programs.

DEASY, G. F., geography, a paper on "Regional Inventory of Terrain Damages Resulting from Bituminous Coal Stripping in Pennsylvania," at the Spring meeting of the Pennsylvania Academy of Science.

HERSHBERGER, T. V., and HARTSOCK, E. W., animal nutrition, a research report on digestion of forages by rumen microorganisms, at the 44th annual meeting, Federation of American Societies for Experimental Biology.

GEMMELL, JAMES, secondary education, an article, "Business Challenges the Academically Talented," in "The Balance Sheet," a magazine for business and economics teachers.

GRIESS, PHYLLIS R., geography, a paper on "B.T.U.'s for Electricity in Pennsylvania," at the Spring meeting of the Pennsylvania Academy of Science.

GRUCCI, J. L., English, an article titled "A Poetry Workshop" in the Spring issue of Overture, literary quarterly.

JEFFRIES, C. D., agronomy, and THOMAS, R. J., soil testing laboratory, a paper on "Use of Long Chain Polymers in Preparation of Soil Extracts for Soil Testing," in the Mar. 4 issue of Science.

KERNER, DAVID, Ogontz, two review articles in the Winter-Spring issue of The Chicago Review, titled "Psychodrama in Eden" and "Hamlet's Left Hand."

KRAUSS, F. B., Romance languages, a paper, "The Battle for International Communication," at the annual meeting of the Classical Association of the Atlantic States, in Washington, D.C., April 29-30.

MAGNER, THOMAS F., Slavic languages, a paper on "Tradition and Russian Grammar" for a panel on Slavic languages at the 13th University of Kentucky Foreign Language Conference, April 28-30.

MARBURT, F. B., journalism, an article in Quill, on journalism laws in Chile.

MOURANT, J. A., philosophy, a chapter titled "Etats Unis d'Amerique et Canada" in a six-volume work, "Les Grands Courants de la Pensée Mondiale Contemporaine," which deals with contemporary philosophical thought. In a later volume, a chapter on "A Portrait of John Dewey."

NEUBERGER, HANS, meteorology, six poems in the April-May issue of the American-German Review.

PHILLIPS, M. J., Ogontz, winner of third prize for painting, "Studio View," at Cheltenham Twp. Art Center's annual exhibit.

RINDONE, G. E., ceramic technology, elected chairman of the Glass Division, American Ceramic Society.

WHISLER, B. A., civil engineering, a paper on "Modern Curriculum in Civil Engineering," before the New England Council of the American Society of Civil Engineers annual conference at the University of Rhode Island.

HONORS AND AWARDS

DAMERST, W. A., English, re-awarded a \$2,000 grant under the Faculty Salary Supplementation section of Gulf Oil Corporation's Aid to Education Program.

ETZWEILER, G. A., electrical engineering, awarded a fellowship by the Standard Oil Foundation, Inc., for work on his doctor of philosophy degree.

faculty BULLETIN

Vol. 47, No. 29

April 22, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

ARTHUR F DAVIS
229 RECREATION

faculty BULLETIN

Weekly Publication
of the Pennsylvania
State University

Major medical

THE Major Medical Expense Insurance Plan will go into effect on May 1, 1960, it has been announced by Frank F. Morris, director of the department of personnel services.

Acceptances of the plan have been received from well over 3,000 faculty and staff members and signed cards are still being received at the office of the employee benefits division, 304 Old Main.

Those who have not already sent in their acceptances will be contacted in May to make certain that everyone has been fully informed of the plan. Those who do not wish the plan will be asked to sign statements to that effect. Present employees who do not sign acceptances during the month of May but who later wish to accept the insurance will be required to present evidence of good health for themselves and their dependents.

Further information concerning the method of submitting claims under the plan will be explained later.

Press books announced

Dr. Hubert W. Frings, professor of zoology, and his wife Mable are compilers of a bibliography titled "Sound Production and Sound Reception by Insects," which is the latest publication of the University Press, appearing earlier this week.

The book contains more than a hundred pages of titles, arranged by author's name. A supplementary index gives reference numbers by subject.

Two other books are due this spring

(Continued on page four)

Poetry Workshop ends ten years

INASMUCH as all writers need an outlet for their efforts, if for no other reason than to give them cause to go on, it is fortunate indeed that *Pivot* has survived for ten years as an organ of Penn State's Poetry Workshop.

The Workshop is, as its name clearly indicates, a place for working in the field of poetry. Creation is the reason for the Workshop's existence, although a part of the students' discipline is to analyze the poems of established writers, past and present.

"We are trying to improve the students' writing," says Joseph L. Grucci, director of the Workshop and associate professor of English, "and the best way to do that is to encourage the students to write. We don't make poets, because poets need imagination and insight and these cannot be taught. But we do succeed in improving the quality of their writing."

Much of the teaching, although certainly not all, results from the helpful criticisms of the Workshop students themselves. Each poem, whether intended for publication or not, must run the gauntlet of Workshop criticism in the presence of its creator. For the sensitive person, the experience of having a poem decimated by classmates can be unnerving, but by the end of the year all newcomers agree that this test is, in the long run, kinder and more helpful than a publisher's rejection slip or the faint praise of friends.

"We emphasize a modern approach to poetry," Grucci declares. "The horse-

and-buggy style has no place in the Workshop because, I believe, we should express ourselves in our own idiom, not an outmoded one. Poetry is an act of discovery—the use of fresh words and incisive imagery is essential."

Aside from this basic rule, however, the poetry of the Workshop and of *Pivot* follows no set pattern. Grucci makes a point of encouraging each student to find his own rather than attempting to imitate established poets. The Workshop students—not only Penn State undergraduates but also graduate students and faculty and staff members—are of no specified type, and the themes they select and the styles they use are as diverse as their personalities. Consequently *Pivot* is notable for its multiformity.

Over the past ten years have come from the Workshop enough poems of strength and merit to make *Pivot* perhaps the only university literary publication in this country which is self-sustaining. Certainly remarkable is *Pivot's* success at Penn State where literary publications of all types have been tried and have failed, with great regularity. A decade ago the scoffers told Grucci a poetry magazine wouldn't get past the first edition.

Who buys *Pivot*? Last year almost fifteen hundred copies were sold to students and faculty here, to departments and libraries at other colleges and universities, and to poets, many of whom took the trouble to express their

(Continued on page four)



The Poetry Workshop and its yearly publication *Pivot* are models for other colleges and universities in the country in the poetry field. For a decade, they have maintained a high standard. *Pivot* is the only self-sustaining poetry magazine produced by students.

Four get Guggenheim fellowship

FOUR faculty members are among 303 scholars and artists announced as winners of 1960 John Simon Guggenheim Memorial Foundation Fellowships.

The four are Dr. Hans Panofsky, professor of meteorology; Dr. Allan L. Rodgers, associate professor of geography, Dr. Leo H. Sommer, professor of chemistry, and Dr. Hugo D. Weisgall, distinguished visiting professor of music.

The fellowships are granted to "persons of the highest capacity for scholarly research, demonstrated by the previous publication of contributions to knowledge and to persons of unusual and proven creative ability in the fine arts." They are designed to aid the fellows through further studies.

Dr. Panofsky's fellowship was granted by studies of upper atmospheric turbulence; Dr. Rodgers' for studies of the recent changes in the industrial geography of Southern Italy; Dr. Sommer's for studies of the theory of substitution reactions at silicon atoms; and Dr. Weisgall's for musical composition.

Fellowships totalling \$1,400,000 were granted this year by the Foundation.

Dr. Frederick R. Matson, assistant dean for research in the College of the Liberal Arts and professor of archaeology, has departed the campus to participate in archaeological field work in Iran, Afghanistan, and Turkey. A grant from the Wenner-Gren Foundation of Anthropological Research has been made for the trip. Dr. Matson will work with a group from the Oriental Institute of the University of Chicago, with which he was associated during an expedition in Iraq five years ago.

Dr. John A. Mourant, professor of philosophy, is serving as the Liberal Arts Research Scholar this semester. He is working on "Problems in Philosophical Anthropology with special reference to Existentialism and Thomism." During the semester, he is freed from certain instruction duties to carry on the research.

Dr. Ernest B. Forbes, retired head of the department of animal nutrition, was honored by the Central Pennsylvania Section of the American Chemical Society on April 21. He has the distinction of having been a member of the Society for 50 years.

Samuel P. Bayard, associate professor of English composition, plans to conduct field and library research in Western Pennsylvania on fife tunes during a leave of absence from September, 1960, through January, 1961. He will work on a manuscript of a book on these traditional march tunes.

Paul E. Shields, associate professor of electrical engineering, will conduct research at the Westinghouse Corporation in Sharon during a year's leave of absence beginning in September. The research concerns high voltage power transformers.

Robert D. Reifsneider, associate professor of theatre arts will be on leave for the Fall semester to visit university theatre schools in England and the United States and to attend classes at a New York City professional theatre school.

Russell E. Larson, head of the department of horticulture, will be on leave from July through December to conduct studies in Mexico on a tomato species and to work with the Mexican Agricultural Program of the Rockefeller Foundation.

► **SEMINAR:** Approximately 125 administrative officers, including deans, assistant deans, department heads, and other general administrators, will attend the President's Seminar on the preparation of college teachers on Saturday, May 7. Sessions will be held in the Hetzel Union Building, beginning at 8:30 a.m.

Earl J. McGrath, executive officer of The Institute of Higher Education, Columbia University, will deliver the keynote address at the opening session in the HUB Auditorium. McGrath has devoted considerable time to studying problems relating to the preparation of college teachers.

Among the questions to be studied by the various groups are:

What are the basic attributes of a college teacher?

How can prospective teachers of high quality be identified and encouraged?

How should we prepare those who wish to become college teachers?

A similar seminar on the various administrative problems of a University was held at Bedford last year.

► **SENATE:** The University Senate will meet on Thursday, May 5, at 4:15 p.m. in Room 121 Sparks.

News in Brief

► **PLAYERS:** Terence Rattigan's "The Sleeping Prince" will be presented by the Penn State Players on Thursday, Friday, and Saturday, May 5, 6, and 7, at 8 p.m. in Schwab Auditorium.

Directed by Robert D. Reifsneider, associate professor of theatre arts, the production includes a cast of seven men and six women students. The story concerns a fictitious regent, a chorus girl, and the king of Carpathia.

Tickets will go on sale at the HUB on Monday, May 2, at 1 p.m. and are priced at 75c for Thursday, \$1.00 for Friday, and \$1.25 for Saturday.

► **BALLET:** A small company of dancers directed by David Raheer, graduate student in theatre arts, will perform a thesis production of Raheer's on Tuesday and Wednesday, May 3 and 4, at 8 p.m. in the Little Theatre, Old Main. Admission is free.

► **TALKS:** Nikolai Bourov, first secretary of the Soviet mission to the United Nations, in charge of public relations, and Norman Whitney, of the American Friends Service Committee, will each discuss briefly "My Personal Hopes and My Nation's Plans for Peace," at a meeting arranged by the International Relations Club and Friends Meeting on Wednesday, May 4, at 8 p.m. in Room 121 Sparks.

Dr. Vernon V. Asaturian, associate professor of political science, will comment on their remarks.

► **SINGERS:** The Penn State Singers, a group of 21 men and women undergraduates directed by Raymond Brown, associate professor of music, will present a concert this evening at 8 p.m. in the HUB Assembly Room.

The program will include a group of Elizabethan madrigals, early church music, a cantata for two sopranos and a solo tenor cantata, and two Bach compositions. A brass ensemble, under the direction of Elliot Block, will play music by Pezel and Mozart.

The Singers are students who give up their lunch hour one day a week to sing madrigals and cantatas. It was organized in 1958 for a Christmas program.

The public is invited to the concert, which is expected to last about one hour.

► **DANCE:** The Women's Recreation Association will conduct its annual Spring Dance Concert on Thursday, May 5 and Saturday, May 7 at 8 p.m. in White Hall. Free tickets are available at the main office in White Hall.

► **SKEET:** A skeet trap range is being constructed on the University property formerly known as the Dreibelbis farm west of the golf course. It is hoped that construction will be far enough along that hunter safety classes might make use of the facility this spring.

When completed, the range will be available to students, faculty, and residents of the area on the same basis as are the ice rink and other facilities in the recreation area.

► **PIANIST:** Anton Kuerti, noted pianist, will present the next Artists Series program on Tuesday, May 10 at 8:30 p.m. in Schwab Auditorium, playing with the University Symphony Orchestra, with Theodore Karhan, associate professor of music, conducting.

Tickets for this concert will go on sale to the public on Friday, May 6 at the HUB desk.

► **ART:** An exhibit of the art works of the students in the departments of art and of art education went on display at the HUB art gallery today. It will continue there until May 9.

► **COMMENCEMENT:** Commencement exercises will be held on Beaver Stadium, weather permitting, at 10:30 a.m., Saturday, June 11.

In the event of inclement weather, three exercises will be held in Recreation Building at 10:30 a.m., and 1:30 and 3:30 p.m.

It was pointed out that inconveniences to those who will attend commencement if held on Beaver Stadium will result from parking limitations and construction in the area. However, an unlimited number of guests will be able to attend if it is held there.

Should indoor ceremonies be held, the following schedule will prevail:

10:30 a.m., Colleges of Engineering and Architecture, Mineral Industries, and associate degree candidates.

1:30 p.m., Agriculture, Education, Home Economics, and Physical Education and Athletics.

3:30 p.m., Business Administration, Chemistry and Physics, and the Liberal Arts.

Candidates for advanced degrees will receive their diplomas at the same time.

► **ENGINEERING:** Ten seminars in engineering, conducted by the College of Engineering and Architecture and by Continuing Education Services, will be offered this summer.

Included are such subjects as electrical contacts, machinability, design engineering, electrical precipitation, underwater missile engineering, atomic shelter, research and development, management development, work measurement, and technical report writing.

Calendar

Friday, April 29

Mineral Industries Colloquium, 4:15 p.m., Room 26, Mineral Sciences, H. A. McKinstry, research assistant, mineral constitution laboratories, on "Z-Ray Fluorescence Analysis."

Fluid Mechanics Seminar, 4:15 p.m., Room 211 Mechanical Engineering, Dr. Stewart Way, Westinghouse Research Laboratories, on "Recent Investigations of M.H.D. Power Generation."

Pi Mu Epsilon meeting, 8:15 p.m., Room 10 Sparks. Lecture by Dr. John Oxtoby, Bryn Mawr College, on "Trigonometric Functions."

Concert by Penn State Singers, Raymond Brown conducting 8 p.m., HUB Assembly Room.

Metallurgy Seminar, 1:15 p.m., Room 121 Mineral Industries. J. K. McCauley, Crucible Steel Co. of America, on "Chemical Engineering Approach to Solidification."

Spring Week parade, College Ave., 7 p.m.

Saturday, April 30

Varsity athletics: golf, versus Lehigh, 1 p.m.; lacrosse, vs. Rutgers, 1 p.m.; tennis, vs. Lehigh, 2 p.m.

Center Stage production of "The Dark at the Top of the Stairs," 8 p.m.

Spring Week Carnival, on golf course, evening hours.

Sunday, May 1

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. R. E. Armington, associate professor of electrical engineering.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Liston Pope, Yale University Divinity School.

Monday, May 2

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Mrs. Alberta E. Siegel, associate professor of child development, on "Womanpower and the College Woman's Future."

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A." R. E. Llorens, on "Thermal Stresses Caused by Periodical Temperature Changes and by Moving Heat Sources."

Tuesday, May 3

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. William D. Taylor, post-doctoral fellow in physics, on "The Thermodynamic Properties of High Polymer Solutions."

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main. "That Time of Day," by David Raher, directed by Roxanne Walton, both graduate students in theatre arts.

Geophysics and Geochemistry Seminar, 3:15 p.m., Room 121 Mineral Industries. Frank Dachille, research associate in geochemistry, on "Some Experimental Limits in Geochemistry."

Meditation Chapel Choirs annual Spring Concert, 8 p.m., Helen Eakin Eisenhower Chapel.

Ballet performance of thesis production of David Raher, graduate student in theatre arts, 8 p.m., Little Theatre, Old Main.

Home Economics Research Seminar, 12:30 p.m., dining room "A," Hetzel Union Building. Dr. James E. Montgomery, head of the department of family housing and home art, on "Research Needs in the Area of Family Housing and Home Art."

Meditation Chapel Choirs concert, directed by James W. Beach, 8 p.m., Helen Eakin Eisenhower Chapel.

Meeting of Penn State Chapter, American Association of University Professors, 8 p.m., Room 124 Sparks. Reports of spring meeting of the Pennsylvania Division of the AAUP and of National meeting. Also consideration of proposed Chapter constitutional amendments.

Wednesday, May 4

Forestry Convocation, 11 a.m., Room 121 Sparks. John E. Franson, forest supervisor, Allegheny National Forest, Warren, Pa., on "Multiple Use Management."

Talks by Nikolai Bourov, first secretary of the Soviet mission of the United Nations in charge of public relations, and Norman Whitney, American Friends Service Committee, on "My Personal Hopes and My Nation's Plans for Peace," 8 p.m., Room 121 Sparks, sponsored

by the International Relations Club and Friends Meeting. V. V. Aspaturian, associate professor of political science, will discuss.

Thursday, May 5

Dance Concert, sponsored by the Women's Recreation Association, 8 p.m., White Hall. Players Show, "The Sleeping Prince," 8 p.m., Schwab.

Pi Gamma Mu, national social science honor society, dinner and initiation, 6:15 p.m., HUB ballroom. Dr. V. V. Aspaturian, associate professor of political science, speaker on "Recent Trends in Soviet Russia."

English Colloquium, 7:30 p.m., Nittany Lion Inn. J. Raban Bilder, Ogontz Campus, on "The Irony in 'Moll Flanders': A Novel of Ideas?"

Senate meeting 4:15 p.m., Room 121 Sparks.

Friday, May 6

Mineral Industries Colloquium, 4:15 p.m., Room 26, Mineral Sciences. Dr. Harold J. Read, professor of physical metallurgy, on "Mechanical Properties of Electrodeposited Metals."

Players Show, "The Sleeping Prince," 8 p.m., Schwab.

Fluid Mechanics Seminar, 4:15 p.m., Room 211 Mechanical Engineering. Dr. Lawrence H. Lattman, on "Stream Sediments of Half Moon Creek, Pennsylvania."

Television Broadcasts

WFBG-TV, CHANNEL 10

Monday, May 2—Also Wednesday and Friday, Course in Personal Finance, 9-9:50 a.m., Lecturer: S. P. Mazza, A. F. Williams.

Monday, May 2, 4, 6 — "Postscripts," news-interview program, with Marlow D. Froke.

Monday, May 2 — Also each weekday, Farm, Home and Garden program, 12:30 p.m. Guests: Wm. Wallace, R. S. Adams, John Baylor, Russell Seward, Gordon Walker, Paul Reber.

Thursday, May 5 — TV Guidelines (Channel 4 only), 8:30 p.m. Guest: Eugene Goodwin, Larry Dennis.

Next Month

May 8—Glee Club concert, 3 p.m., Schwab.

May 10—Artists Series, Anton Kuerti, pianist, Schwab, 8:30 p.m.

May 12—Meditation Chapel Choirs Recital, 4:15 p.m., Chapel.

May 15—Concert by Theodore Karhan, violin, and Marcia Scholten, piano, 4 p.m., Schwab.

May 21—University Chapel Choir Concert, 8:30 p.m., Schwab.

May 26—Classes end.

May 28—Exams begin 8 a.m.

May 29—Blue Band Concert, 3 p.m. on Mall.

► **CONCERTS:** The Meditation Chapel Choirs, under the direction of James W. Beach, will present the first of two Spring Concerts on Tuesday May 3 at 8 p.m. in the Helen Eakin Eisenhower Chapel.

This program will include choral works of Bach, the cantata, "Jesu, Joy and Treasure," by Buxtehude, and the "Five Mystical Songs" of Vaughan Williams.

On Thursday, May 12 at 4:15 p.m., the Choirs will present another special program in the Chapel, with a Lutheran Service using one of the new musical settings of the Lutheran Liturgy. The Rev. Arthur R. Seyda, Lutheran campus pastor, will be liturgist for this service.

Both programs will be followed by a reception for choir and congregation in the Memorial Lounge of the Chapel.

Items of Interest

ELECTED OR APPOINTED

- ADDISON, ARNOLD, Ordnance Research Lab, elected national director of the Society for the Advancement of Management.
- GOODWIN, H. E., Journalism, elected to the accrediting committee of the American Council of Education for Journalism.
- LOWENBERG, MIRIAM E., foods and nutrition, appointed to the Advisory Committee on Materials, National Dairy Council.
- NEUBERGER, HANS, meteorology, re-appointed to the National Research Council to represent the American Meteorological Society in the division of earth sciences.
- RINDONE, G. E., ceramic technology, elected chairman of the glass division, American Ceramic Society.
- SPANGLER, MARGARET, Library, appointed to the nominating committee for officers to the Library Administration of the American Library Association.
- THUERING, G. L., industrial engineering, re-elected regional director of Alpha Pi Mu, industrial engineering honor society.
- WOOD, MERRILL, zoology, elected first vice-president of the Eastern Bird Banding Association.

ARTICLES AND PAPERS

- ABRAMSON, CARL, Ogontz, co-author of a paper titled, "Mechanisms of Drug Resistance in Microorganisms," given at the convention of the Federation of American Societies for Experimental Biology, in Chicago.
- At the International Scientific Radio Union meetings May 2-5, papers by the following members of the Ionosphere Research Lab staff: A. C. AIKIN, S. A. BOWHILL, H. N. CARLSON, A. BRUNNSCHWEILER, A. J. FERRARO, D. D. GRANT, E. R. SCHMERLING, E. A. MECHTLY, J. S. NISBET, W. J. ROSS, G. S. SALES, Y. V. SOMAYAJULU.
- At the joint meeting of the American Geophysics Union and the American Meteorological Society, papers by A. K. BLACKADAR and M. H. RAJALA, meteorology, on "Hydrostatic Stability as a factor in the Propagation of Pressure Systems"; and by H. A. PANOFKY, BLACKADAR, and G. E. McVEHIL, on "The Diabatic Wind Profile."
- BOWMAN, T. D., English, "Desdemona's Last Moments," in the current issue of *Philological Quarterly*.
- CHANDRA, SUSHIL, GIBBONS, J. J., and SAHA, A. K., Ionosphere Research Lab, a paper at the American Geophysical Union meeting April 29, on "300 Kc/S Sounding of Night-time E Layer and Origin of Echo Patterns."
- CHAPMAN, H. N., JR., an article in the latest issue of *Hispania* titled, "Para poner el espanol en el terreno de juego."
- At the meetings in New York on the Speech Association of Eastern States, an address

by WALTER COUTU, and papers by ASA BERLIN, B. M. SIEGENTHALER, R. T. OLIVER, H. E. NELSON, and E. S. CARTER.

- DEASY, G. F. and GRIESS, PHYLLIS R., a joint paper, "Localization of Electric Generating Plants: The Case of Pennsylvania," at the annual meeting, Association of American Geographers, Dallas, Tex.
- ENGGASS, ROBERT, art and architectural history, an article, "La Musica' Barberini del Lanfranco," in the December issue of *Commentari, rivista di critica e storia dell'arte*.
- FIFE, ILINE, speech, a paper, "The Confederate Theater: A Barometer," at the Southern Speech Convention at Winston-Salem, N. C.
- GEMMELL, JAMES, education, an article in the April issue of "The Balance Sheet" on the subject, "Business Challenges the Academically Talented."
- KERNER, DAVID, Ogontz, an article in the April issue of *College English* on "A New Way to Teach Composition: Controlled Materials."
- MINDER, T. L., Engineering library, "The Mathematical Foundations of Bibliographic Organization," in the January issue of *American Documentation*.
- PASTO, J. K., agricultural economics and rural sociology, on "The Role of Farm Management in the Agricultural Development of Southeast Asia" at a Seminar of the Department of Agricultural Economics, Cornell University.
- SORAUF, F. J., political science, an article titled "The Silent Revolution in Patronage," in the Winter 1960 issue of *Public Administration Review*.
- WEAVER, R. G., English, an article in the April issue of *Supervision*, on "How to Teach a Job."

LECTURES AND TALKS

- GREENHILL, L. P., Academic Research and Services, "Implications of Media Research for Learning and Teaching" before the NDEA Title VII Research Seminar at the University of Colorado, April 12.
- MURRAY, R. K., history, "The Communist Menace in the United States, 1919-1960," at the Social Science Seminar for Gifted Students at Abington, Pa.
- THADEN, E. C., history, an illustrated talk, "Modern Russia: A Land of Contrasts," before the College Twp. Women's Club.
- THOMPSON, S. E., hotel administration, a talk on "What Makes People Like You," at the weekly assembly of students at Wyomissing.
- WILLIAMS, P. N., acting chaplain, in a panel discussion, "New Ways of Work on the Campus," at the meeting of the National Association of College and University Chaplains, at Amherst College, April 25-29.

HONORS AND AWARDS

- SCHILL, K. F., forestry, named a National Science Fellow for the next academic year for graduate study in economics at Duke University.

Poetry—

(Continued from page one)

admiration of its high standards. This year, because it is celebrating its 10th anniversary, *Pivot* is somewhat larger (the Workshop is also larger, nearly double what it has been in the past) and more eye-catching. Grucci anticipates a sale of more than 2,000 copies because of the increasing interest in both the Workshop and *Pivot*.

Writing poetry and getting it published are the goals of the Workshop but there are other rewarding aspects of this experience. Many students really open their eyes for the first time to view the world around them and are surprised at how much they have either overlooked or have taken for granted. Others are encouraged to take a closer look at themselves. In either case, they are learning to fulfill the role of the poet—to give identity to the world around them and in them.

Their special anniversary number goes on sale the week of May 2 at the HUB, on the Mall, and at several of the local bookstores.

Press—

(Continued from page one)

from the Press. One is "Viso Placis: Holy City and Grail," by Helen Adolf, professor of German, and the second, "The Joyce Country," by William York Tindall, Joyce professor at Columbia University.

In their book, the Fringes point out that scientific publications on insect sound production and insect sound reception are numerous and the journals in which they appear are difficult to find. Their book represents a relatively complete list of publications appearing prior to 1957 and contains more than 1,750 references.

Four additional books are to be published later in the summer.

faculty BULLETIN

Vol. 47, No. 30

April 29, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

FM broadcasts begin

PENN STATE'S frequency modulation radio station, WDFM, has begun an experimental tie-in with other FM stations in the east to receive programs from WNYC, the municipal station in New York City. Broadcasts of these programs has been going on for about a month.

"At present," explains Dr. Harold E. Nelson, associate professor of speech and general manager of the station, "we are receiving and transmitting nine hours per week. If we are successful in this trial period we plan to continue on a permanent basis and extend our broadcast schedule."

WNYC produces fine music programs, special features, news, and on-the-spot broadcasts of important events occurring in the city. Many of the programs are piped into the New York schools.

Eventually, Dr. Nelson explains, the scope of the network's productions will be enlarged when the individual stations also contribute programming in their own areas.

The stations currently in operation include WNTI, at Centenary College for Women, Hackettstown, N. J.; WGPB, Bethlehem; WPPA, Pottsville, Pa.; WTTI, Towanda, Pa.; WGBH, the Lowell Institute station in Boston; WAMC, the Albany Medical College station, and WHYY, Philadelphia municipal station.

The broadcast day now starts at 5 p.m. each weekday for WDFM and from 5 to 6 p.m. the network program of music from Broadway shows is broadcast. From 6 to 11:30 p.m. the station broadcasts its own productions. On Sunday, from 3 to 7 p.m., network

(Continued on page two)

Philosophy gets recognition abroad

DR JOHN M. ANDERSON, head of the department of philosophy, says when he explains to the layman that he is a philosopher, he usually draws a look of puzzlement.

"It is as though the person can't quite make up his mind what, if anything, I do," he adds humorously.

The issue is raised because it is another bit of evidence that the position of philosophy is radically less significant in the United States than it is in Continental Europe. As others see us, the United States has little or no philosophical tradition or interests.

Penn State, however, is proving to be an exception, and at least those who listened to a radio program originating at Cologne and broadcast over the West German network on December 29 would know that it is. On that night, Dr. Jeanne Hersch, who was a distinguished visiting professor of philosophy for a year at Penn State, was the principal speaker in an hour-long program entitled, "America—a Land without Philosophy?" The question implied, of course, that this country is without philosophical maturity.

In many respects the staff here feels the criticism is justified. We do not, for example, stress philosophy in our educational system as do Europeans. There, students who are still in high school get the same type of materials we give to our university students in the basic courses.

Then, too, the general public will listen to and participate in, philosophical discussions much more readily than we do. Consider for example, the aforementioned program, an hour long, which was beamed to the general public. It is doubtful that such a program would be successful here.

Penn State is hope

Dr. Hersch told her listeners that she saw in Penn State a ray of hope that the United States could develop mature philosophic inquiry, as Europeans conceive it, because here faculty and students demonstrated that "philosophy is taken seriously."

"I would not contend that philosophy was not taken seriously elsewhere in America," says Dr. Anderson, "but Dr. Hersch implies that it is an isolated concern of specialists in most of our colleges and universities. Often there may be an emphasis on philosophical research but little sense of philosophy as penetrating the life and culture of our times. Penn State is one of the few places where the Western Tradition of Philosophy from Plato to the Existentialists is taught and discussed as hav-

ing concrete meaning for the life of the individual and society.

"I think it would be difficult to find another university where high standards of inquiry were as closely coupled with a sense of the importance of philosophy in every area of human life."

In response to questions by others on the program, Dr. Hersch designated the recognition of the pervasive importance of philosophy and an insistence on free inquiry as major characteristics of European philosophy as contrasted with American thought. However, she said she responded very favorably to Penn State students because of their "openness" and their willingness to discuss all fundamental philosophic questions. As for the faculty of philosophy here, she thought it exceptional in its concern with perennial and basic questions and its ability to profit from its own diverse views on these issues.

A common ground

"Many American philosophers," Dr. Anderson agrees, "do have a difficult time establishing a common ground with those of Europe. From the continent we are viewed as being incapable of comprehending Hegel, Jaspers, and others who are by-words in Europe. Certainly, in general, we haven't done so. American contributions to philosophy so far, although important, have been largely restricted to discoveries in logic and analysis of specialized problems in science and language."

Dr. Hersch described American philosophy to her radio audience as having a tendency to raise only those narrow questions for which answers are assumed to be available, whereas European philosophers discuss perennial questions, whether there is an ultimate answer or not. Dr. Hersch also told her audience that about 10 per cent of the undergraduate student body at Penn State now takes one or more philosophy courses. With respect to American universities she said, correctly, that this is undoubtedly a very high figure.

"I'm not sure I know all the reasons for this interest," says Dr. Anderson. "Certainly it must have something to do with the interest of the general faculty, and perhaps the students themselves are our best 'salesmen.' I'm sure the quality of the department staff has a major effect on enrollment."

Dr. Hersch explained in her broadcast that the failure of Americans to understand the decisive position of philosophy in western civilization is due to an "astonishing absence of feeling for history." Ultimately this leads

to a failure to understand the philosophies of Hegel and Marx, and to an inability to "engage with the enemy because he is unknown."

"In this I would partially concur," says Dr. Anderson. "Dr. Hersch says that we view Hegel as nonsense. Many American philosophers do hold this view of him, and their indifference to history has led to a tacit refusal to think through the ultimate issues of development in the areas of politics and government, as well as in science and its applications."

Penn State may be a leader in breaking down the barriers in communication between American and European philosophers, if a proposed cooperative program with the University of Geneva is successful. The purpose of the project, Dr. Anderson explains, is to exchange staff and information on philosophical movements, so that each university is aware of the other's concerns and accomplishments.

There is a brighter future for philosophy in America, Dr. Anderson believes, pointing out first that serious thought has been given to the introduction of courses in ethics, logic, and basic philosophy into the secondary school programs.

"We have already aided in an experimental program of teaching ethics in the State College High School," he adds. "Second, we are developing a graduate program in philosophy which is explicitly directed toward establishing continuity between contemporary American and continental European philosophers through the medium of their common origins in the 2000 year old tradition of philosophy as a way of life. This will provide the necessary intellectual context for dealing with the fundamental issues of our age."

In time, perhaps, an hour-long radio discussion of the philosophical situation abroad will not be considered unusual in America, anymore than it was in Cologne, Germany, last December.

FM —

(Continued from page one)

shows featuring CBC drama series, chamber music, UN workshop, and music programs of varied tastes are available.

Much of the credit for making possible the network tie-in is given to A. V. Tidmore, owner of the Pottsville station. The program is received from the broadcast signal of the Pottsville station, rather than through telephone cable, Nelson explains, and the station personnel aided in the installation in many ways.

News in Brief

► **KUERTI:** The final program of the 1959-60 Artists Series will be given by Anton Kuerti, pianist, on Tuesday, May 10, at 8:30 p.m. in Schwab Auditorium.

In addition to the concert, in which he will be accompanied in several numbers by the University Symphony Orchestra, under the direction of Theodore Karhan, Kuerti will also present a workshop at 3:15 p.m. in Schwab Auditorium. Admission to the Workshop is free.

Kuerti is considered one of the fastest rising American artists today. He has played with the New York Philharmonic, Philadelphia, Cleveland, and Pittsburgh orchestras, and many others. Vienna-born, he came to this country at the age of four, began music lessons at five. His first major appearance, at the age of 11, was made with the Boston Pops Orchestra, directed by Arthur Fiedler.

► **BEHAVIORAL:** "Present Trends in the Behavioral Sciences" will be the subject of a talk by Dr. Ralph W. Tyler for the Spring meeting of the Social Science Research Center on Monday, May 9 at 8 p.m. in Room 121 Sparks.

Dr. Tyler, who is executive director of the Center for Advanced Study in the Behavioral Sciences at Stanford, California, is well known for his work in education measurement and research. Prior to his present affiliation, he was dean of the Social Sciences and University Examiner at the University of Chicago.

► **REACTOR:** A model of the nuclear reactor and generating station at Saxton, Pa., which is to be built as a research project to learn how steam from a reactor can be utilized in generating electricity will be on display until May 9 in the lobby of the Electrical Engineering building.

General Public Utilities System, which is building the reactor, has invited the University to become a member of the Saxton Nuclear Experimental Corp. to cooperate in the research and experimental project.

► **SERVICES:** Two Protestant Services of Worship will be held in the Helen Eakin Eisenhower Chapel on Mother's Day, May 8, to help accommodate the overflow crowds attending local churches and The Chapel. The second service will be at 11 a.m. and will include the installation of the new officers and cabinet of the Student Christian Association. The regular service will be held at 9 a.m..

► **HONORARY:** A chapter of Beta Alpha Psi, national accounting honorary, will be installed at the University on May 21, and six members of the department of accounting and business statistics will become charter members.

The installation of the chapter will be conducted by Dr. Williard Stone, of the University of Pennsylvania, and Ossian MacKenzie, dean of the College of Business Administration, will accept the charter on behalf of the students.

Richard M. Colwell, Anthony J. Mastro, Clifford A. Nelson, G. Kenneth Nelson, William J. Schrader, and Charles J. Rowland are the faculty members who will become charter members.

► **PHILOSOPHY:** The Western Pennsylvania Philosophical Society will hold its Spring Meeting on Saturday, May 14, beginning at 11 a.m. in the Hetzel Union Building. Dr. James McKeldin, University of Pittsburgh, will speak on "Some Reflections on Meanings in Relation to Ethics," in the opening session.

At 2 p.m., a panel discussion will be held on the subject, "Need for Philosophy" with Dr. John M. Anderson and Stanley H. Rosen, of Penn State, Willard E. Arnett, Chatham College, and Henry W. Johnstone, Jr., Penn State, as moderator.

► **CHEMISTRY:** Dr. William Donald Cooke, department of chemistry, Cornell University, will be the featured speaker on Thursday, May 12 at the monthly meeting of the Central Pennsylvania Section of the American Chemical Society at 8 p.m. in Room 119 Osmond. He will speak on "New Advances in Flame Spectrometry."

► **NEW SOCIETY:** A recently founded organization, The Psychonomic Society, has included five faculty members in its charter membership. They are Drs. John F. Corso, Joseph H. Grosslight, John F. Hall, William M. Lepley, and Sidney Siegel.

Purpose of the Society is to promote the communication of scientific research in psychology and allied sciences.

► **VISITING:** R. S. Scorer, reader in applied mathematics, Imperial College, Cambridge, England, will give a lecture of public interest on Wednesday, May 11 at 8 p.m. in Room 119 Osmond, on the subject, "Water in the Earth's Atmosphere."

Scorer, who is distinguished visiting professor of earth sciences for a two-week period, has done much research in the meteorological field and is author or co-author of four books on the subject.

► **GEOLOGY:** Dr. A. F. Buddington, distinguished visiting professor of petrology who is professor emeritus of geology at Princeton University, will lecture on "A Geologist's Model of the Crust and Subcrust of the Earth" in the Mineral Industries Auditorium at 8 p.m. on Wednesday, May 18. The lecture is sponsored jointly by the division of earth sciences and the Henry Darwin Rogers Society.

► **CHOIRS:** The Meditation Chapel Choirs, directed by James W. Beach, will present a special program on Thursday, May 12 at 4:15 p.m. in the Chapel, featuring the new Lutheran Service and Liturgy. The Rev. Arthur R. Seyda, Lutheran campus pastor, will be liturgist. A reception for the choir and congregation will follow in the Memorial Lounge.

► **TALK:** As one of the current Biological Sciences Lecture Series, a talk entitled "Nitrogen Fixation by Cell-Free Preparations of *Clostridium pasteurianum*" will be given by Dr. L. E. Mortenson, of the E. I. du Pont de Nemours and Co. Experimental Station, on Thursday, May 12 in Room 112 Buckhout at 4:15 p.m.

► **FULBRIGHTER:** Dr. Chadwick Hansen, instructor in English literature and a member of the faculty since 1955, has been granted a Fulbright International Exchange Program award to lecture on American literature and American civilization at the Karl-Franzens University of Graz, Austria, next year.

He will leave for Austria in September and return next summer.

► **INSTRUCTION:** A program of instruction for science and mathematics teachers in public, private, and parochial secondary schools will be conducted throughout the State during the 1960-61 school year, supported by a grant from the National Science Foundation.

The classes will be given during evening hours or on Saturdays at the Commonwealth Campuses in Altoona, Erie, DuBois, Hazelton, McKeesport, Ogontz, and Pottsville, and at other locations where sufficient interest is shown.

The program is designed to improve science and mathematics instruction by enabling teachers to obtain additional information on matters such as research developments in biology, chemistry, earth sciences, mathematics, and physics.

During the current year, 320 teachers are enrolled at Penn State, which is one of 191 institutes giving the program.

Calendar

Friday, May 6

Mineral Industries Colloquium, 4:15 p.m., Room 26, Mineral Sciences. Dr. Harold J. Read, professor of physical metallurgy, on "Mechanical Properties of Electrodeposited Metals."

Players Show, "The Sleeping Prince," 8 p.m., Schwab.

Fluid Mechanics Seminar, 4:15 p.m., Room 211 Mechanical Engineering. Dr. Lawrence H. Lattman, on "Stream Sediments of Half Moon Creek, Pennsylvania."

Graduate Student Association Dance, 8:30-12, HUB ballroom.

Saturday, May 7

Varsity track, vs. Quantico Marines, 1:30 p.m.

Varsity baseball, vs. Maryland, 2:30 p.m.

Spring Dance Concert of Women's Recreation Association, White Hall, 8 p.m.

Players production of "The Sleeping Prince," 8 p.m., Schwab Auditorium.

Sunday, May 8

Protestant Services of Worship, 9 a.m. and 11 a.m., Helen Eakin Eisenhower Chapel. S. N. Gibson, executive director of UCA.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. Edmund A. Steimle, professor of practical theology, Mt. Airy Lutheran Theological Seminary.

Penn State Glee Club concert, 3 p.m., Schwab Auditorium.

Monday, May 9

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Dr. William M. Smith, Jr., State 4-H Club leader, on "Reflections on the White House Conference on Children and Youth."

Social Science Research Center Spring meeting, 8 p.m., Room 121 Sparks. Dr. Ralph W. Tyler, executive director of the Center For Advanced Study in the Behavioral Sciences, Stanford, Cal., on "Present Trends in the Behavioral Sciences."

Disarmament Discussion, 12 noon, Chapel Lounge, Roy Wilkinson, attorney, on "Disarmament and World Law."

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A." Dr. M. A. Wilkov, instructor in engineering mechanics, on "Thermal Stresses and Vibrations Caused by Heat Shock."

Tuesday, May 10

Artists Series program with pianist Anton Kuerti, accompanied by the University Symphony Orchestra, conducted by Theodore Karhan, 8:30 p.m., Schwab Auditorium. (Workshop by Mr. Kuerti, 3:15 p.m., Schwab, admission free.)

Geophysics and Geochemistry Seminar, 3:15 p.m., Room 121 Mineral Industries. John C. Shank, graduate assistant in geophysics.

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main. "The Pass," by James T. Miller, senior in English, directed by J. A. Sanderson, graduate assistant in theatre arts.

Physics Colloquium, 4:15 p.m., Room 117 Osmond. Dr. O. S. Heavens, Columbia University Radiation Laboratory.

Economics Faculty Seminar, 12 noon, dining room "A," Hetzel Union Building. Raymond Vernon, professor of International trade and investment, Harvard Graduate School of Business, on "Soviet Trade Offense, Its Implications for U.S. Policy."

Wednesday, May 11

Lecture by R. S. Scorer, Cambridge University, on "Water in the Earth's Atmosphere," 8 p.m., Room 119 Osmond, sponsored by the department of meteorology.

Forestry Convocation, 11 a.m., Room 121 Sparks. Dr. Ernst J. Schreiner, in charge of forest genetics research, Northeastern Forest Experiment Station, Morris Arboretum, Philadelphia.

Thursday, May 12

Meditation Chapel Choirs program, directed by James Beach, of Lutheran liturgy, with Rev. Arthur Seyda at liturgist, 4:15 p.m., Helen Eakin Eisenhower Chapel.

Lecture by Dr. L. E. Mortenson, experimental station, E. I. du Pont de Nemours and Co., on "Nitrogen Fixation by Cell-Free Preparations of *Clostridium pasteurianum*,"

4:15 p.m., Room 112 Buckhout. Biological Sciences Lecture Series.

Central Pennsylvania Section, American Chemical Society meeting, 8 p.m., Room 119 Osmond. Dr. William Donald Cooke, Cornell University, on "New Advances in Flame Spectroscopy."

Meeting of the faculty of the College of the Liberal Arts, 4:15 p.m., Room 121 Sparks.

Meeting of the faculty of the College of Home Economics, 4:15 p.m., Room 14, Home Economics.

Graduate Mining Seminar, 3:20 p.m., Room 24, Mineral Industries. J. V. Tingley on "Combating Disasters."

Friday, May 13

Fluid Mechanics Seminar, 4:15 p.m., Room 211 Mechanical Engineering. Dr. John C. Griffiths, professor of mineralogy, on "Measurement of Grain Size and its Interpretation."

Metallurgy Seminar, 1:15 p.m., Room 121 Mineral Industries. J. C. Lachman, Hoskins Mfg. Co., on "Thermocouples for 3000 deg. C., using Rhenium Alloys."

Television Broadcasts

WFBG-TV, CHANNEL 10

Saturday, May 7—"From the Bookshelves," with Dr. Lyman C. Hunt, 9-9:30 a.m.

Monday, May 9—Also Wednesday and Friday, Course in Personal Finance, 9-9:50 a.m., Lecturer: S. P. Mazza, A. F. Williams, J. F. Bradley, D. H. McKinley.

Monday, May 9, 11, 13—"Postscripts," news-interview program, with Marlow D. Froke.

Monday, May 9—Also each weekday, Farm, Home and Garden program, 12:30 p.m. Guests: Harold Holt, R. S. Adams, James Becker, John Tait, C. P. McMinn, Thomas Kelly.

Thursday, May 12—TV Guidelines (Channel 4 only), 8:30 p.m. Guest: Leland Beik, Robert Flynn.

Next Month

May 15—Concert by Theodore Karhan, violin, and Marcia Scholten, piano, 4 p.m., Schwab.

May 21—University Chapel Choir Concert, 8:30 p.m., Schwab.

May 26—Classes end.

May 28—Exams begin 8 a.m.

May 29—Blue Band Concert, 3 p.m. on Mall.

► **GLEE CLUB:** The Penn State Glee Club will present its annual spring concert on Sunday, May 8, at 3 p.m. in Schwab Auditorium. Under the direction of Frank Gullo, the 50-voice group will present a program of varied music, featuring soloists, and the Varsity Quartet and the Hi-Los. The concert is a feature of Mother's Day.

► **DANCE:** The annual spring dance of the Graduate Student Association, to which all graduate students and faculty members are invited, will be held tonight in the HUB Ballroom from 8:30 p.m. to midnight, with music by The Campuseers. Refreshments will be served.

► **REQUIEM:** Giuseppe Verdi's "Requiem" will be presented by the University Chapel Choir and Symphony Orchestra on Saturday, May 21 at 8:30 p.m. in Schwab Auditorium. Hugo Weisgall, distinguished visiting professor of music, will be the guest conductor for this performance.

Collection added

IMPORTANT new evidence on the Sumner-Brooks Affair, a more than one-hundred-year-old controversy which helped to inflame the passions of North and South in the critical decade before the Civil War, has been brought to light in a new addition to the holdings of the Pennsylvania Historical Collections at The Pennsylvania State University.

The previously unknown documents are included in the Robert Montgomery Smith Jackson papers, recently presented to the University by Robert J. Wigton of Spruce Creek and Mrs. Mary Wigton Reeve of Clearfield. Jackson was their grandfather.

In announcing the gift, Wallace F. Workmaster, Curator of the Pennsylvania Historical Collections, said, "These papers shed new and significant evidence on the character and veracity of Massachusetts' fiery abolitionist Senator Charles Sumner. Much of his later vindictiveness during the Reconstruction period is often attributed to this affair and thus directly influenced the political and social development of the modern South."

The Controversy began in 1856 when Sumner was assaulted on the floor of the Senate by Congressman Preston Brooks of South Carolina. Northern radicals embraced Sumner as a martyr to the abolitionist cause, while Southern extremists championed Brooks as an avenger of Southern honor and accused Sumner of faking the extent of his injuries. According to previously unknown but qualified medical reports included in the Jackson papers, Sumner's condition while under Jackson's care at the Allegheny Mountain Health In-



Letter from Ralph Waldo Emerson among papers recently added to the Library's Pennsylvania Historical Collection gets more than passing interest from Patricia Davis.

stitute at Cresson shortly after the attack indicate that he was severely injured.

Jackson, a graduate of Washington and Jefferson College and Jefferson Medical College, had previously served on the staff of the first Geological Survey of Pennsylvania and before opening the Cresson sanatorium he practiced medicine for a time at Blairsville. On the eve of the Civil War, he wrote *The Mountain*, a scientific study which won him election to the select American Philosophical Society and brought him into correspondence with America's foremost literary figures.

Included in the Jackson papers are letters from Ralph Waldo Emerson, Henry Thoreau, A. Bronson Alcott, W.

H. Furness, and Theodore Parker. Jackson subsequently enlisted in the Union Army during the Civil War as a surgeon. He was medical director of the Twenty-Third Corps and Eastern Tennessee when he suddenly died in January, 1865.

Workmaster pointed out that the Jackson papers are representative of the past which are unknown to researchers and which require modern archival care to insure their future preservation and availability.

"Every effort must be made to provide for the collection and care of the source materials which reveal our local, state, and national heritage before they are thoughtlessly or inadvertently destroyed," he said.

faculty BULLETIN

Vol. 47, No. 31

May 6, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY.

faculty

BULLETIN

*Weekly Publication
The Pennsylvania
State University*

News in Brief

► **MAJOR MEDICAL:** The Major Medical Expense Insurance plan went into effect on May 1, with over 3,300 acceptances of the plan by University faculty and staff members.

During May, all those who had not accepted the plan before May 1 will be given an opportunity to sign up without the requirement of a physical examination or other evidence of good health. After May 31 such evidence will be required of all those entering the plan.

Last week cards were given out to staff members who had not already accepted the plan. If the employee did not desire the insurance, he was asked to indicate this on the card.

► **TILLING:** The student branch of the American Society of Agricultural Engineers will do garden tilling with a power-tiller at reasonable rates, especially in the evening or on Saturday. Some weekday arrangements can also be made. Purpose of the project is to raise funds for student club activities. Call UN 5-7792 to make arrangements.

► **SALESROOM:** The new Creamery Salesroom has been completed and is now open to the public. As a convenience to faculty and staff members the hours to be maintained have been extended. Monday through Saturday the Salesroom will be open from 7:30 a.m. to 5:30 p.m. On Sunday the hours will be from 10 a.m. to 5:30 p.m.

All of the products processed by the University Creamery will be on sale. Many will be available on a self-service

(Continued on page four)

Election Year

Farm policies will be issue

(Ed. Note: This is the first in a series of articles on Election Year issues, the facts behind them and an evaluation of those considered most important, as viewed by faculty members.).

FARM problems and government programs in agriculture are certain to be among the issues debated by presidential aspirants this year, particularly in the Farm Belt.

What are the issues? How did they come about? What solutions have been offered and what does the future hold?

"The key issue," says Dr. George E. Brandow, professor of agricultural economics, "is how best to help the farmer obtain or maintain an income in relative balance with the rest of the working force, in the face of constant pressures which tend to reduce his status.

"Since World War I, (because of increased mechanization and improved agricultural practices,) there have been economic pressures to reduce the number of families living and working on farms. In the past 30 years, crop production per acre has gone up 30 per cent and production per man-hour of farm labor, 157 per cent.

"Aside from a general increase in population and a slight change in the quality of food the public requires, there has been little reason for an increase in food production, except in periods of stress such as World War II. Therefore, the increased capacity for producing food has not been met by a sufficient demand to maintain a 'free market' price-level of farm products which is favorable to the farmer.

"The size of farm unit needed for an efficient family farm has risen sharply, which puts pressure on those who are in no position to increase the size of their farms."

There are approximately 4¾ million farms in this country, with 1,150,000,000 acres of land. About 44% of these farms might be classed as "commercial," meaning that they are neither subsistence nor part-time farms. These farms produce 91 per cent of all farm products marketed. A further breakdown shows that the upper 27% of all farms produces about 80% of all farm products.

"Though non-commercial farmers are not affected in large degree by policies and programs of the Federal Government," says Brandow, "it is obvious that commercial farmers have a big stake in programs which affect the acreages under production or the price supports maintained by the government."

The policies of Secretary of Agriculture Ezra Taft Benson have tended to-



Dr. George E. Brandow

ward "free markets," a position supported by the American Farm Bureau Federation, which represents many farmers across the nation. The National Farmers Union, however—a body which has its strongest support west of the Mississippi—opposes this plan to eliminate price supports.

"Many farmers are asking themselves whether it is wise to continue price supports in a peacetime economy," says Brandow. "Discontinuance of price supports would, it is believed, reduce total farm income by 25-40 per cent. Though the number of farms and the total farm labor force must decline in the future, there is sharp disagreement as to whether highly unfavorable incomes are required or will alone do the job."

Although the farm problem has a history of at least several decades, it has come into sharpest focus primarily since the Korean War. During that war, production levels reached new peaks and since then there has been little trend to reduce this level, in spite of the fact that prices have been reduced. Various devices have been attempted to reduce surpluses in some commodities, and to support prices near "parity," but not enough has been done to assist in the movement of labor from farm to non-farm activities.

"However," says Brandow, "farm programs have had surprisingly little effect

(Continued on page two)

Two get Fulbright grants

Two members of the staff of the department of philosophy have been awarded Fulbright grants for the 1960-61 year, one for lecturing and one for research.

Dr. Henry W. Johnstone, Jr., associate professor of philosophy, will go to Trinity College, Dublin, Ireland, to lecture and conduct seminars. He has been a member of the faculty since 1952, and taught at Williams College previously.

Dr. Stanley H. Rosen, assistant professor, plans to engage in research at the Sorbonne, in Paris. He will be concerned with "The Influence of Hegel on Contemporary Social and Political Thought in Europe." Prior to his appointment to the faculty in 1956 he was a fellow and lecturer at the University of Chicago.

Promotions of seven faculty members have been announced, effective, with one exception, Feb. 1. They are:

Dr. Roy C. Buck, named professor of rural sociology.

Dr. John C. Frey, professor of land economics.

Dr. Jerome K. Pasto, professor of farm management.

Dr. Prasenjit K. Saha, research associate in physics.

Helen D. Tunison, extension home economist.

Alice Wood, extension home economist.

Ward M. Stover, Indiana County agricultural agent.

William E. Sopper, instructor in forestry, has been selected to take part in a special Field Institute in Forest Biology this summer at North Carolina State College. The Institute is sup-

ported by the National Science Foundation as part of its program in biological research. Sopper is one of 36 men in the country chosen to represent scientific disciplines basic to forest biology. The program runs from July 25 to Aug. 19.

Col. William J. Cain, Jr., at present director of operations of the Strategic Air Command Wing stationed at Chennault Air Force Base, Lake Charles, La., has been named professor of air science.

He will succeed Col. O. H. Rigley, Jr., who has been assigned to command the 6314th Air Base Wing at Osan, Korea.

Walter E. Boyer, instructor in English composition, died on Friday, May 6, at the age of 48 while walking to his home on E. College Ave.

A graduate of Franklin and Marshall College, he was also granted the bachelor of divinity degree from the Theological Seminary at Lancaster and the master of arts from Bucknell. He was a candidate for the doctor of philosophy degree from Penn State.

Prior to his appointment to the faculty in 1953, Boyer had served in school systems in Northumberland county. An ordained minister, he had served churches in the same county and in Cleveland, Ohio.

Poetry prizewinners



John Ciardi, second from left, poetry editor of the *Saturday Review*, congratulates James Desmond, winner of the Anthony James Grucci award in poetry this year. Other prize winners are David Kipp, Alice Hoyt, and Thomas Hummell. At right is Joseph M. Grucci, who conducts the Poetry Workshop. Picture was taken at a reception for Ciardi last week.

Farm—

(Continued from page one)

on total resources used in agriculture, total output, size of farm, or efficiency of production. The farm labor force has declined 27 per cent and crop acreage per farm has increased 23 per cent in a decade. Probably the changes would not have been much different in free markets."

Two of the legislative programs developed to attempt to solve the farm problem in the last number of years are: (1) making payments to farmers to put land into acreage reserve; and (2) using surpluses for foreign aid.

At present, about 28,000,000 acres of farm land have been taken out of production and set aside for reserve, most of it having been put into grass. The total effect of this program has been slight, Brandow explains, because not enough land has been put under this program and because that which has been removed from production was not the most productive anyhow. He estimates that if a total of 60,000,000 acres were put in reserve, there would be some noticeable effect on production. Such a program would be costly.

P.L.480 is a program of foreign aid. Surpluses of farm products are sold to foreign countries in need, and they may be purchased with that country's currency, rather than U.S. dollars. The United States will then use the foreign currency to make loans to that country.

Hearing survey

Some 260 faculty and staff members, selected at random from among employees of the University, are currently being contacted to take part on a voluntary basis in a survey of hearing facility.

The survey is being conducted by the Human Factors Research Program, under the direction of Dr. John F. Corso, professor of psychology, as part of a research study of the effects of age on hearing.

The survey has been made possible by a \$30,570 grant from an anonymous donor who became interested in the study after learning of the hearing survey made by Dr. Corso from 1953 to 1958 under a contract with the U. S. Air Force.

To date about 50 persons have been contacted to participate in the current survey. An urgent appeal for cooperation is being made to all those who are contacted to make the survey a success. Contact interviews are being conducted by Richard W. Jones and Robert F. Chapman, senior students in psychology.

for its development industrially and in other ways.

"There is some disagreement," Brandow says, "as to what effects programs to increase commercial exports have on foreign relations. Certainly some countries will resist our attempts to dump wheat on foreign markets at a low price when they depend on wheat as a source of income. The United States has shown considerable restraint in these respects so far. It is also argued that even an enlarged and well-balanced foreign-aid program would not call for sufficient exports to make use of all land and labor now in agriculture."

Although the major attention to date of price supports has been on grains, cotton, and tobacco, many economists feel that the same situation can develop in meat animals as farmers increase the number of animals fed because grains are available.

Government programs in the area of price supports, acreage controls, foreign exports, and the like will be up for serious discussion, especially in the mid-west, during the election year. Brandow agrees, but farmers will probably make up their minds not on one single issue but on many, and especially so in the east.

"Benson's lack of popularity with many farmers may be more important than the appeal of either candidate," he says. "It seems obvious that foreign aid, military spending, labor problems, and other questions will get the farmer's attention in his selection of a president, just as it will the urban dweller's."

Library meeting

Many faculty members will be participants in the joint meeting of the Central Pennsylvania College and Reference Section and the Juniata-Conemaugh District of the Pennsylvania Library Association tomorrow (May 14).

The morning session will be held in the Bella Schlow Memorial Library in State College and the luncheon and afternoon sessions at the Nittany Lion Inn.

At 10 a.m., Leslie P. Greenhill, associate director of the Division of Academic Research and Services, will speak on "TV in Education," and a talk will be given by J. A. Dame, Laurel Radio Network, on "Radio and the Local Library." Dr. Ralph Blasingame, State librarian, will lead a discussion.

At the "author's luncheon" from 12:30 to 2:00 p.m., Dr. Edward J. Nichols, Anne Marbut, John Barth, and Lois and Francis Hyslop, all local authors, will be present.

In the afternoon sessions a symposium on "New Tools for Librarians" will be conducted and machines useful to the library will be on display.

Low temperature reached

Using nuclear demagnetization, research men in the Cryogenic Laboratory in the College of Chemistry and Physics have succeeded in cooling metallic palladium to a temperature which preliminary calculations indicate may have been substantially less than one microdegree.

The lowest temperature reported previously was above one microdegree. This work was done at Oxford University.

The experiments here were carried out by graduate students Hanna Maria, Hugh W. Bernard, and Robert Fisher,

under the direction of Dr. J. J. Fritz, associate professor of chemistry. Dr. John G. Aston, director of the laboratory, is on leave at Oxford.

The method used here was a modification of that used at Oxford in the first successful nuclear demagnetizations several years ago. Starting temperatures of about 0.01 deg. above absolute zero were obtained by magnetic cooling of a specimen chromium potassium alum. The magnetic palladium was then demagnetized from a magnetic field of about 12,000 gauss to obtain cooling of the nuclear spins of the palladium.

Calendar

Friday, May 13

Fluid Mechanics Seminar, 4:15 p.m., Room 211 Mechanical Engineering. Dr. John C. Griffiths, professor of mineralogy, on "Measurement of Grain Size and its Interpretation."

Metallurgy Seminar, 1:15 p.m., Room 121 Mineral Industries. J. C. Lachman, Hoskins Mfg. Co., on "Thermocouples for 3000 deg. C., using Rhenum Alloys."

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Raymond A. Friedman, director, Kinetics and Combustion Division, Atlantic Research Corporation, on "Solid Propellant Combustion Problems."

Center Stage production of "The Dark at the Top of the Stairs," 8 p.m.

Drill competition of Army, Navy, Air Force ROTC and Pershing Rifles teams, 5:45 p.m., lawn in front of Old Main. (Completion of event started last Sunday.)

Saturday, May 14

Joint meeting, Central Pennsylvania College Section and the Juniata-Conemaugh District of the Pennsylvania Library Association, morning session, Bella Schlow Memorial Library; afternoon session, Nittany Lion Inn.

Varsity track, vs. Pittsburgh, 1 p.m.; varsity baseball, vs. Navy, 2:30 p.m.; varsity lacrosse, vs. Swarthmore, 3:30 p.m.

Center Stage production of "The Dark at the Top of the Stairs," 8 p.m.

Western Pennsylvania Philosophical Society meeting, Room 212-213, Hetzel Union Building, 11 a.m. and 2 p.m. Dr. James McKeldin, University of Pittsburgh, on "Some Reflections on Meanings in Relation to Ethics," and a panel discussion on "Need for Philosophy."

Annual Horse Show, sponsored by the Riding Club, 9 a.m. to 5 p.m. at the Riding Stables.

Sunday, May 15

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. The Rev. Theodore Braun.

Chapel Service, 10:55 a.m., Schwab Auditorium. Dr. John Oliver Nelson, professor of Christian vocation, Yale University Divinity School.

Annual Horse Show, sponsored by the Riding Club, 1 to 5 p.m.

Monday, May 16

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Dr. Herbert Glenn, on "University Health Services."

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A." Dr. L. W. Hu, on "Thermo-Plasticity."

Tuesday, May 17

Joint Chemistry-Physics Colloquium, 4:15 p.m., Room 117 Osmond. J. W. Stout, department of chemistry, University of Chicago, on "The Absorption Spectra of Anhydrous Manganese Halides."

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main, "Bachelor Girl's Whim," by

Michael Forgacs, graduate student in theatre arts; directed by Charles McCardell, senior in arts and letters.

Geophysics and Geochemistry Seminar, 3:15 p.m., Room 121 Mineral Industries. Rahmat Chaffar-Adly, graduate assistant in geophysics.

Wednesday, May 18

Lecture by Dr. A. F. Buddington, distinguished visiting professor of petrology, on "A Geologist's Model of the Crust and Subcrust of the Earth," 8 p.m., Mineral Industries Auditorium.

Forestry Convocation, 11 a.m., Room 121 Sparks. A. L. Bennett, vice-president, Armstrong Forest Co., Johnsonburg, Pa.

Thursday, May 19

Meeting of the faculty of the College of Business Administration, 4:15 p.m., Room 111 Boucke.

Graduate Mining Seminar, 3:20 p.m., Room 24, Mineral Industries. Thomas V. Falkie, on "Presenting Safety Statistics and Advertising Safety."

Armed Forces Day parade, 7 p.m.

Honors Day program, 4:15 p.m., Mineral Industries Auditorium.

Friday, May 20

Meeting of the faculty of the College of Agriculture, 4:15 p.m., Room 112 Buckhout.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Norman H. Suhr, spectroscopist, mineral constitution laboratories, on "Spectrochemical Analyses of Rocks and Minerals."

Fluid Mechanics Seminar, 4:15 p.m., Room 211 Mechanical Engineering. Dr. Merrell R. Fenske, on "Mass Transfer Problems in Revolving Partially Miscible Liquids."

Television Broadcasts

WFBG-TV, CHANNEL 10

Saturday, May 14—"From the Bookshelves," with Dr. Lyman C. Hunt, 9-9:30 a.m.

Monday, May 16—Also Wednesday and Friday, Course in Personal Finance, 9-9:50 a.m., Lecturers: J. F. Bradley, D. H. McKinley, J. P. Giusti.

Monday, May 16, 18, 20—"Postscripts," news-interview program, with Marlow D. Froke.

Monday, May 16—Also each weekday, Farm, Home and Garden program, 12:30 p.m. Guests: Carolyn Quarles, Les Burdette, Janet Tritt, George Settlemeyer, James Pound.

Thursday, May 19—TV Guidelines (Channel 4 only), 8:30 p.m. Guests: E. J. Sykes and J. J. Rubin.

Next Month

May 21—University Chapel Choir Concert, 8:30 p.m., Schwab.

May 26—Classes end.

May 28—Exams begin 8 a.m.

May 29—Blue Band Concert, 3 p.m. on Mall.

(Continued from page one)

basis. In addition, other products, such as University Grade A large eggs, University honey, and fruit in season from the University farms will be on sale.

Parking adjacent to the salesroom is available along Curtin Rd.

➤ **LOAN FUND:** As a special project within the Alumni Fund, a Graduate School Emergency Loan Fund has been established, supported by contributions of Graduate School Alumni who have received their bachelor's degrees at other colleges.

To date nearly \$2,000 has been contributed to the fund, which is designed to assist graduate students on a short-term loan basis in meeting last-minute graduation expenses. The fund will be administered by the dean of the Graduate School and the graduate student may make application for loans through his adviser.

Loans will be limited to \$200 and there will be no interest charge provided the loan is paid by the date due.

➤ **CLASS GIFT:** The gift of the Class of 1960 will be an entrance to Beaver Stadium. A check for \$4,000, representing contributions of students and an amount from the University doubling contributions, has been given for the purpose of the new entrance. Students will continue to contribute to the fund until graduation.

➤ **DRAMATICS:** Registration of children for the creative dramatics course to be given during Mid-Session, July 6 to Aug. 12, is being carried out now by the department of theatre arts.

Children of the 9 to 11-year age bracket are eligible for the classes, which for the children are described as "dynamic play activity." Adult students in the course learn the art of guiding

children in creative dramatic activity based on stories, pantomime, and experience.

Dr. Walter H. Walters, head of the department, requests that no children be registered if they would be away during any part of the class session since the program is group activity.

The classes will be held from 9:30 to 10:30 a.m. Monday through Friday, in the Little Theatre in Old Main.

Children should be registered by writing to Dr. Walters, department of theatre arts, Schwab Auditorium, before June 1.

➤ **HORSES:** The annual Horse Show sponsored by the Penn State Riding Club will be held on Saturday and Sunday, May 14 and 15 at the Riding Stables on north campus. The Show will feature open jumping, hunter, and western classes, beginning at 9 a.m. on Saturday and 1 p.m. on Sunday, continuing until 5 p.m. each day. Admission for the two days is 75c and for one day 50c.

➤ **DRILL:** Completion of the 6th annual Inter-Service Drill competition, which was partially rained-out last Sunday, is scheduled for today (Friday, May 13) at 5:45 p.m. on the lawn in front of Old Main.

The standard routine was finished by the Army, Air Force, and Navy R.O.T.C. units and Pershing Rifles before it was decided to postpone the trick routines. Nearly 1,500 spectators watched the drills in spite of the wet and windy weather.

➤ **VERDI:** A 140-voice chorus will combine with the University Symphony Orchestra to present Giuseppe Verdi's "Requiem" on Saturday, May 21, in Schwab Auditorium.

The Chapel Choir has been specially augmented for this concert by local

members of its own alumni, and by representatives of the Meditation Chapel Choirs, Roman Catholic, and Jewish groups.

Dr. Hugo Weisgall, distinguished visiting professor of music, will be guest conductor. Among the soloists will be Raymond Brown, baritone, associate professor of music.

➤ **EXHIBIT:** One of the largest and most comprehensive collections of student art work ever assembled at the University is currently on exhibit at the Hub Art Gallery and in the Temporary Classroom Building. Included are more than 500 works by students in art, art education, and home art. It will continue until May 17.

➤ **RALLY:** Bishop Johannes Lilje, bishop of the Lutheran Church of Germany, will be the featured speaker of an Ecumenical Rally to be held on Sunday, May 22 by the University Christian Association and the Chaplain's Office.

At 3 p.m. in Schwab Auditorium, Bishop Lilje will speak on "Christianity and Communism."

Many residents of the area are expected to attend the rally as well as students.

➤ **ARMED FORCES:** A parade, exhibits, and movies will highlight the celebration of Armed Forces Day on campus and in the borough.

Highlight of the event—the annual parade of military units—will be held at 7 p.m. on Thursday, May 19. Displays will be installed in downtown store windows and in the Hetzel Union Building. Movies of military units in action will be held in a continuous showing from 1 to 5 p.m. in the HUB on May 19.

Dr. Howard Cutler, assistant to the president for academic affairs, will be parade monitor.

faculty BULLETIN

Vol. 47, No. 32

May 13, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

A. F. DAVIS
REACTION

E M CZI
248A-R

4

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

News in Brief

► **ANNUITY**—Full-time regular salaried personnel of the University are now eligible to purchase annuities by individually authorized monthly payroll deductions, in amounts not to exceed that determined by a formula (up to 20% of the total salary) contained in the Federal Technical Amendments Act of 1958.

The payroll deductions for such annuity premiums are income tax-deferred. They will be paid by the University to an insurance company for an annuity policy, which in turn will be the sole property of the annuitant.

The University will not contribute to the annuity in any way. Its role will normally be limited to paying the authorized payroll deduction to The Equitable Life Assurance Society. Deductions may not be less than \$40 per month.

If University personnel desire to avail themselves of this means to supplement the retirement benefits of the State Employees' Retirement plan, they may request information forms from the Department of Personnel Services, Room 304, phone UN 5-6521, Old Main Building. However, since all negotiations must be made by the requesting individual with the insurance company, Personnel Services will schedule appointments with a representative of the company.

The purchase of annuities under these conditions will not in any way affect other established benefits.

► **CARDIAC CONFERENCE**: Sponsored by the University in cooperation with the Pennsylvania Heart Association, a conference to help cardiac homemakers learn methods for conserving energy will be held on May 31. Heart Associations in Blair, Clinton, Centre, Mifflin-Juniata, and Tioga counties and the Susquehanna Association are also co-operating in the venture.

L. Jeanne Riebel, associate professor of home management, and Janice N. Chennault, instructor, will conduct the program. Dr. Eugene H. Mateer, president of the Centre County Heart Assn. will speak.

► **POLIO**: The next March of Dimes Polio Vaccine Clinic in Centre County will be held on June 1. The Clinics administered 9,633 shots at 15 locations in Centre County on April 20, according to the Centre County Chapter of the March of Dimes, which asks that every person from 0 to 99 years of age be vaccinated.

► **REBUTTAL**: Television viewers on the State College cable who have been watching the weekly program, "TV Guidelines" on Thursdays at 8:30 p.m. will have a rare opportunity on Thurs-

day, May 26, when the final program will be given.

Guests on the program that evening will be Frank Cummins, of Station WJAC-TV, Johnstown, and Frank Palmer, WFBG-TV, Altoona. They will be on hand to discuss the "Problems of Programming," and to answer questions from viewers.

As pointed out by Dr. Robert W. Iversen, of the Continuing Liberal Education staff, who has been coordinating this unusual program, television viewers have been criticizing both of these stations for 12 weeks, but on May 26 those in charge of programming will discuss their problems, defend their selections, and subject themselves to the criticism of the audience, via the private phone line.

► **PENNSYLVANIA**: The annual Institute on Pennsylvania Life and Culture will be held on campus from June 22-24 with the theme, "The Past—Foundation of the Future."

Sponsored jointly by the Pennsylvania Historical Association, Pennsylvania Council for the Social Studies, Pennsylvania Federation of Historical Societies, Pennsylvania Historical and Museum Commission, and the Social Science Research Center at Penn State, the Institute brings together historians, high school and college teachers, historical society staffs, librarians, museum personnel, and interested laymen.

Wallace F. Workmaster, curator of the Pennsylvania Historical Collections, is administrative director of the Institute.

► **WATER**: As a further step in effecting savings in operations of the University, a new water control valve has been installed in many residence hall shower rooms.

Tests of the valve in campus installations have indicated that some 7½ million gallons of water will be saved each academic year with this control, and those to be installed in the new graduate student apartments will save an additional 3 million gallons.

"At the present cost of furnishing and treating water," says Thomas B. Kneen, head of the division of utility planning, "this will bring about a saving of approximately \$2,100 yearly. In addition, there will be a saving in sewage plant operations as well."

► **EXHIBIT**: An exhibit arranged by Dr. Nihad Sayar, Fulbright scholar in business administration from Turkey, is now on display in the foyer of the Home Economics Building. The exhibit includes ceramics, copperware, a gold embroidered antique fabric, jewelry, wood spoons, slippers, etc. from Turkey. The exhibit will continue through next week.

Personnel matters

David R. Mitchell, professor of mining engineering and chairman of the Division of Mineral Engineering, has been named associate dean of the College of Mineral Industries, effective June 30.

A 1924 graduate of the University in mining, Mitchell was granted the master of science degree in 1927 and in 1930 the University of Illinois conferred the degree of Engineer of Mines. From 1924 to 1926 he was an engineer with Bethlehem Mines Corp., from 1927-1938 on the faculty of the University of Illinois, and at Penn State since 1938. He has been at his present post since 1944. He served as acting dean of the College from Feb. 1 to July 31, 1958.

Dr. Elton Atwater, professor of political science, has been named head of the department of political science from July 1, 1960 to June 30, 1963, succeeding Dr. M. Nelson McGeary, who has held the position for the past three years.

Named to the faculty in 1950, Dr. Atwater had served previously at American University, at Elmira College, and as director of the Foreign Service Training Program of the American Friends Service Committee. He had also served three summers at Penn State as visiting lecturer in political science.

Since coming to Penn State he served as acting head of the department for a short period. In 1957-58 he was on leave to serve as associate director of the Quaker Program at the United Nations. He is author of the books, "American Regulation of Arms Exports" and "Administration of Export and Import Embargoes."

Labor presses many issues

(Ed. Note: This is the second in a series of articles on Election Year issues, the facts behind them and an evaluation of those considered most important, as viewed by faculty members.).

ORGANIZED labor, numbering some 16.9 million workers in its ranks out of a total working force of 70 million in the United States, has many issues it considers important to discuss in this presidential year.

"Perhaps the Teamsters' announced intention to make the Landrum-Griffin Bill a major issue will tend to overshadow some of the other programs Labor is working for," says Dr. Joseph G. Rayback, head of the department of labor education, "but as far as the AFL-CIO is concerned there are 12 issues at stake."

The AFL-CIO represents about 13.9 million members in the continental U.S. and president George Meany is its spokesman. Outside of the AFL-CIO are such unions as the Teamsters, the United Mine Workers, the International Longshoremens, two railroad brotherhoods, and a number of other small, unaffiliated unions. Each has its own spokesmen. Some of these unions take very broad interest in legislative and executive actions of the Federal and local governments; others confine their activities to issues of strictly labor interest.

"The AFL-CIO," says Helmut J. Goltz, assistant professor of industrial relations, "considers such matters as aid to depressed areas, housing, civil rights, and education as affairs which should get labor's attention and effort."

"Many of these issues are raised every year, but there are several which are now getting special attention because it is a presidential year."

One of these is the subject of economic growth of the country, which, according to the AFL-CIO, has been retarded in recent years. In a pamphlet titled "Memo to Congress: A Positive Program for America," the AFL-CIO says that in the period 1953-59 total national output has increased only 2½ per cent per year, whereas in the 1947-53 era the rate was 4.6 per cent. The Government it is argued, should halt its tight money policy to attain a goal of 5 per cent yearly growth and full employment.

"Another major issue in 1960," adds Goltz, "is that the country should develop ways to use more of its resources for public services, such as aid to education, urban redevelopment, and housing."

One of the issues in the area of direct

labor legislation is the present minimum wage standards which Labor feels should be changed. Adoption of a \$1.25 per hour standard and extension of present coverage to many more workers is urged. Goltz points out that this would affect few union workers who are, in the main, already getting a higher wage.

On the subject of labor standards, the AFL-CIO calls for amendments to two acts now on the books: Davis-Bacon and Walsh-Healey. The first requires on all Government construction payment of wages current in the area and the second refers to certain labor standards (such as the 40-hour week) for all companies selling supplies to the Government under contract.

Improvement of present unemployment insurance laws in the several states is another goal of the AFL-CIO. It seeks to set as a minimum in each state higher weekly benefits than now prevail and to extend payments to 39 weeks. These are the principal benefits of bills introduced into both the House and Senate.

In the area of social welfare, labor is currently pressing for medical aid for the aged, supporting the Forand Bill, which ties medical payments to Social Security. This bill provides 60 days of hospital care, surgical services, and skilled nursing home care.

Other fields of current interest are the redevelopment of distressed areas, a housing measure calling for at least 200,000 low-cost public housing units yearly, consideration of changes in the present tax system to increase the \$600 exemption and make other changes, the development of the country's resources, and aid to farmers.

Obviously a candidate which supported all these measures advocated by the AFL-CIO would receive strong support from Labor, if other characteristics were desirable. This program, however, has not been set up exclusively as a test for the presidency but as a goal for Congress. Hence, Goltz agrees, election of senators and representatives will hinge on these issues.

In other areas of government, such as foreign affairs and military matters, there is no established policy within Labor. It is said that there is sharp disagreement in the AFL-CIO regarding our foreign policies and some union members feel that many of the union's officers are tied too closely to the State Department.

"It should not be assumed," says Dr. Rayback, "that individual local leaders and members will avoid foreign affairs and military spending as criteria for the selection of the president and other governmental officers. However, locals tend to think in terms of local and state problems, so it isn't very likely that they will introduce the subjects without a push from the higher officers."

"Simply because Mr. Meany is

(Continued on page four)



Dr. Joseph G. Rayback, head of the department of labor education, and Helmut J. Goltz, assistant professor of industrial relations, right, discuss the issues of this election year as they relate to labor. They agree that economic growth will be a major issue.

Calendar

Friday, May 20

Meeting of the faculty of the College of Agriculture, 4:15 p.m., Room 112 Buckhout.

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Norman H. Suhr, spectroscopist, mineral constitution laboratories, on "Spectrochemical Analyses of Rocks and Minerals."

Fluid Mechanics Seminar, 4:15 p.m., Room 211 Mechanical Engineering. Dr. Merrell R. Fenske, on "Mass Transfer Problems in Resolving Partially Miscible Liquids."

Saturday, May 21

Presentation of Verdi's "Requiem," by the University Chapel Choir and Symphony, directed by Hugo Weisgall, distinguished visiting professor of music, 8:30 p.m., Schwab Auditorium.

Varsity lacrosse, versus Colgate; varsity tennis, versus Army, both at 2 p.m.

Graduate Student Association Square Dance, 8:30 p.m., Hetzel Union Building Ballroom, for faculty members and graduate students.

Sunday, May 22

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Protestant Service of Worship, 9 a.m., Helen Eakin, Eisenhower Chapel, The Rev. Arthur Seyda.

Chapel Service, 10:55 a.m., Schwab Auditorium. Bishop Johannes Lilje, Lutheran Bishop of Hannover, West Germany.

Ecumenical Rally, 3 p.m., Schwab Auditorium. Bishop Johannes Lilje, bishop of the Lutheran Church of Germany, speaker.

Monday, May 23

Engineering Mechanics Seminar, 4:15 p.m., Room 203 Engineering "A." Dr. G. U. Oppel, on "Experimental Thermal Stress Analysis and Demonstrations."

Meeting of faculty, College of Physical Education and Athletics, 7 p.m., Room 241 Recreation Building.

Faculty Luncheon Club, 12 noon, dining room "A," Hetzel Union Building. Dr. R. K. Y. Dusingber, University Health Center, on "A New Viewpoint on Traffic Mortality."

State College Color Slide Club, 7:30 p.m., Mineral Industries Auditorium. Taped slide-talk on exploration of a cave in Tennessee, election of officers for coming year, and slide judging.

Disarmament Seminar, 12 noon, main lounge The Chapel. Discussion of Summit talks, led by Dr. Elton Atwater, professor of political science. Lunch and coffee available.

Tuesday, May 24

Meeting of the faculty, College of the Liberal Arts, 4:15 p.m., Room 121 Sparks.

Five O'Clock Theatre, 5 p.m., Little Theatre, Old Main. "The Tale of the Goat," by Ellis Grove, graduate student in theatre arts.

Wednesday, May 25

Forestry Convocation, 11 a.m., Room 121 Sparks. Charles H. Stoddard, Resources for the Future, Washington, D. C.

Thursday, May 26

Geophysics and Geochemistry Seminar, 3:15 p.m., Room 121 Mineral Industries. F. F. Fish, National Science Foundation fellow in geophysics, on "Experiments in Absorption of Seismic Waves in Fluid-Saturated Rocks."

Spring Semester classes end, 9:50 p.m.

American Chemical Society, Central Pennsylvania Section, meeting, 8 p.m., Room 112 Buckhout. Dr. E. van Tamelen, University of Wisconsin.

Graduate Mining Seminar, 3:20 p.m., Room 24, Mineral Industries, Robert Stefanko, instructor in mining, on "Organization of the Mine Environmental Control Program."

Television Broadcasts

WFBG-TV, CHANNEL 10

Saturday, May 21—"From the Bookshelves," with Dr. Lyman C. Hunt, 9-9:30 a.m.

Monday, May 23—"Postscripts," news-interview program, with Marlow D. Froke.

Monday, May 23—Also each weekday, Farm Home and Garden program, 12:30 p.m. Guests: Hannah Huff, E. P. Farrand, Helen Butler, Mary Rearick, and Margaret Isenhower.

Thursday, May 26—TV Guidelines (Channel 4 only), 8:30 p.m. Guests: Frank Cummins (WJAC) and Frank Palmer (WFBG).

Senate Minutes

MINUTES OF THE MEETING OF MAY 5, 1960

The University Senate met at 4:15 p.m. on Thursday, May 5, 1960, in Room 121 Sparks Building with President Eric A. Walker, presiding. The minutes of the April 7 meeting were approved as printed in the Faculty Bulletin for April 22, 1960. One hundred seventy-nine senators signed the roll.

Communications of University Officers

Letters naming substitutes were received from senators unable to be present and naming substitutes. The substitute is designated in parenthesis following the name of the senator: G. W. Brindley (G. E. Rindone), Hummel Fishburn (G. W. Henning), P. W. Fletcher (R. N. Jorgensen), James Gemmell (W. G. Page), J. L. Gobble (P. J. Phillips, Jr.), L. P. Guest (D. B. Harris), D. E. Hardenbergh (Walter Jaunzemis), L. C. Hunt, Jr. (J. V. Alessandro), F. R. Matson (Mrs. Margaret B. Matson), I. Michelson (Huon Li), N. A. Norton (W. E. White), H. B. Palmer (T. S. Polansky), E. R. Queer (E. R. McLaughlin), A. W. VanderMeer (D. B. Harris), Thomas Wartik (H. D. Zook), J. B. Washko (H. W. Higbee), and W. H. Wilson (D. E. Walker).

New Senators

From the College of Education a communication that E. L. Matil will represent Viktor Lowenfeld, Head of the Department of Art Education, during his illness.

From the College of Mineral Industries a communication that G. F. Deasy has been named acting head of the Geography Department while E. W. Miller is on leave from April 1 to September 1, 1960.

Letters from the various undergraduate Colleges and the Graduate School naming the newly elected senators for 1960-1963 were read by the secretary as follows:

Agriculture—H. K. Anders, N. D. Blackburn, E. G. Buss, G. H. Watrous.

Business Administration—R. M. Colwell, L. E. Fouraker, F. W. Kniffin, A. L. Williams. R. D. Pashek will replace W. H. Martin for 1960-61 term.

Chemistry and Physics—A. S. Carney, W. A. Lloyd, E. W. Mueller, L. H. Sommer.

Education—Gerald Bosch, Leon Gorlow, J. D. McAulay, N. C. Pendered.

Engineering and Architecture—A. D. Brickman, M. W. Isenberg, O. E. Lancaster, G. L. Thuering.

Home Economics—Mary Brown Allgood, Ruth Gates, Ruth L. Pike, Elizabeth Ray, L. Jeanne Riebel to replace Eva Wilson 1960-62 term; Gilma Olson to replace Della Avery 1960-61 term.

Liberal Arts—R. W. Brewster, H. E. Dickson, T. F. Magner, G. N. Raney.

Mineral Industries—T. F. Batcs, C. L. Hosler, M. L. Keith, T. S. Spicer.

Physical Education and Athletics—R. M. Conger, A. R. Gray, G. W. Harvey, D. J. Watkins. A. L. Harnett to replace D. B. Swegan 1960-62 term.

Graduate School—D. E. Frear, J. J. Gibbon, C. G. Haas, M. W. Humphrey, H. I. Tarpley to replace H. A. Panofsky 1960-61 term.

The following communication from the Middle States Association of Colleges and Secondary Schools was read:

Dr. Eric A. Walker, President
Pennsylvania State University
University Park, Pennsylvania
Dear Doctor Walker:

This is a brief note to tell you officially that at its recent meeting the Commission received and studied the Progress Report submitted by Pennsylvania State University and voted to accept and commend the Report.

The requirements imposed by the Commission following the evaluation of Pennsylvania State University in 1956 have now been fully met. While the Commission would be pleased at any time to receive further reports from Pennsylvania State University on its own initiative concerning its further progress and of course reserves the right to inquire into the affairs of the University should any question of its educational effectiveness unfortunately arise, Pennsylvania State University

is under no further necessity to report to the Commission until the occasion of the next regular decennial re-evaluation.

In the Commission's view, one of the remaining problems is the adequacy of the general education requirements for Associate degrees. Pennsylvania State University is urged to give further study to this problem.

Please be assured that the Commission, its Chairman and its Executive Secretary stand ready to assist Pennsylvania State University by consultation or by other appropriate means at any time.

Cordially,
Albert E. Meder, Jr.
Chairman

President Walker made several comments on the communication.

Reports of Standing Committees

B. A. Whisler, Chairman of the SENATE COMMITTEE ON CALENDAR AND CLASS SCHEDULE presented the report of the Committee relative to the occupancy of the new military science building (Wagner Building) which had been distributed with the agenda as appendix "A." He moved that

The Senate authorize, on an experimental basis, for the 1960-61 academic year, a deviation from the established calendar policy (Item L.2) to permit military classes held in the new Wagner (Military Science) Building to begin at 7:50 a.m.

The motion was seconded and passed. The complete report is on file in the office of the secretary.

Mr. Whisler then presented the Proposed Change in Calendar Policy which had been distributed with the agenda as appendix "B" and moved that Section E and Section K be changed to read as follows:

Section E: Number of Class Periods. Change to read: "That each academic semester consist of 15 meetings for each half day of the week."

Section K: Vacations. Change Subdivision 1 to read: "That Thanksgiving Day shall be a holiday."

The motion was seconded. Richard Haber, President of the Student Government Association, asked for permission to present the student's viewpoint of this proposal. He stated that the Student Government Association voted to go on record as being against the proposal because the students felt they wanted the extended Thanksgiving Vacation. H. J. Read pointed out how many students would be affected during this vacation period. J. D. Ridge moved that the two recommendations be voted on separately. The motion was seconded and lost. There was further discussion by Messrs. Panofsky, Green, Mook, and Knerr. The question was called for and 55 voted in favor of the changed calendar policy and 102 voted against it.

A. W. Hutchison, Chairman of the SENATE COMMITTEE ON CONTINUING EDUCATION POLICY, presented a recommendation for revising Senate Regulations B-1,b and B-1,c which had been distributed with the agenda as appendix "C." He moved adoption of the recommendation as follows:

Resident Education and Continuing Education
B-1. Resident education shall include:

- All instruction on the University Park Campus in courses approved by the University Senate for college credit.
- All instruction at officially designated Commonwealth Campuses or Centers in courses approved by the University Senate for college credit.
- All field work such as field trips, internships, practice-teaching, and the like when part of a course for credit and when directly supervised by a member of the University faculty.

B-2. Continuing education shall include: All instruction, including correspondence, given by The Pennsylvania State University which is not specifically designated as resident education.

The motion was seconded and after some discussion was passed. The complete report is on file in the office of the secretary.

Mr. Hutchison moved that the Senate receive the report which had been distributed with the agenda as appendix "D" relative to Continuing Education. The motion was seconded and passed. He then moved adoption of the three recommendations under "Needs

of an Expanding Continuing Education Program" on page five as follows:

1. that—the University furnish physical facilities on a year-round basis for Continuing Education comparable to those for Resident Education and Research. (This would include housing, food service, class and meeting rooms, and equipment.)
2. that—the heads of academic departments be charged specifically with responsibility for providing for continuing education and extension within their own field when making departmental plans. Such consideration is particularly essential in the selection of new staff members, in scheduling staff time, and in offering suitable recognition to staff members who contribute effectively in the area of continuing education and extension.
3. that—equal recognition be given by the University to scholarly attainment in all three of the academic functions.

The motion was seconded. O. R. MacKenzie asked for a clarification of recommendation two on page five and recommendation one on page seven. After discussion Mr. MacKenzie moved that the first sentence of recommendation two on page five be changed to read—

the heads of academic departments be charged specifically with responsibility for recognizing continuing education and extension within their own field when making departmental plans.

The motion was seconded and defeated. Questions were raised regarding the cost of implementing recommendation one and it was pointed out that in the long range planning there is provision for a building for Continuing Education. After further discussion on the motion by Messrs. McCord, Schanz, Striedieck, Cutler, and Powers the three recommendations were passed.

Mr. Hutchison moved that recommendations one and two under "A Continuing Education Policy for Each College" on page six be adopted as follows:

1. that—each College establish a Continuing Education Policy and that the Senate be advised by the Chairman of the Administrative Committee for Continuing Education when this has been done for any College. This should be accomplished prior to May 1, 1961.
 2. that—each College make an annual appraisal and evaluation of its Continuing Education program.
- The motion was seconded and passed.
- Mr. Hutchison moved that the five recommendations under "Achieving Greater Effectiveness Through the Training of Personnel and Through Increased Cooperation Between Academic Units" on page seven be adopted as follows:

1. that—the heads of academic departments be charged with responsibility for providing for continuing education and extension in related interdisciplinary areas as

well as within their own field when making departmental plans.

2. that — all academic departments be charged specifically with responsibility for assisting in the training of people to carry on continuing education in the area of competence of the department.

3. that — a committee, including representatives from all interested Colleges and with the representative from the College of Education serving as chairman, be appointed and charged with responsibility for selecting or developing a group of courses to serve as a core for the training of personnel in continuing education and extension irrespective of the academic field.

4. that—the Office of International Student Affairs be charged with responsibility for promoting cooperation between University groups involved with adult foreign student programs, particularly those not leading to degrees, to develop greater competency in adult education in the case of those students who will be returning to their native countries to share their technical and professional competence with other adults.

5. that—the Administrative Committee on Continuing Education be renamed the Administrative Committee on Continuing Education and Extension to indicate more clearly its responsibilities in the area of Agricultural and Home Economics Extension and that it be charged with responsibility for reviewing and approving all informal educational programs including those in Agricultural and Home Economics Extension. This would not, of course, include review of proposed demonstration meetings, help to individuals, and the like.

The motion was seconded. H. R. Albrecht moved that recommendation number five be returned to the Committee for further study. The motion was seconded and passed. Ben Euwema moved that recommendations one, two, and three be returned to the Committee. The motion was seconded and passed. Recommendation number four was passed. The complete report is on file in the office of the secretary.

C. W. Pierce, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as appendix "E." He moved that proposals 375-396 with an amendment to proposal 385 as circulated be adopted. The motion was seconded and passed. He moved adoption of proposals 401-404 as changed. The motion was seconded and passed. Mr. Pierce moved adoption of the remaining proposals in the report. Upon question from the secretary Mr. Pierce stated that it was the intent of the Committee to include items 399 and 400 among the remaining proposals in the report. The motion was seconded and after discussion on proposal 340 was passed. The complete report is on file in the office of the secretary.

(Continued next week)

Labor—

(Continued from page two)

spokesman for the AFL-CIO it is not true that all unions will think as he does, stress the programs he does, and take stands on individual candidates.

"There are many circumstances when a particular affiliate will oppose the stand of the parent body. For example, some years ago, when the general attitude of labor was for free trade, the textile workers, whose jobs were threatened by imported goods, urged import quotas on textiles. In time, the AFL-CIO supported this view."

Secretary of Labor James Mitchell is not a controversial figure in himself, says Goltz, as is the Secretary of Agriculture in his field, and therefore he is not a campaign issue as far as the AFL-CIO is concerned. Labor will undoubtedly work for the election of certain men to Congress on the basis of their friendliness to Labor, but it is entirely conceivable that in any local situation one union will strongly support a candidate who is bitterly opposed by another union. In many cases, the candidate gets a promise that the union won't oppose him, if he cannot get its support.

"It should be clear," says Dr. Rayback, "that the nearly 17 million workers in unions won't vote en masse for a specific presidential candidate. There is no overwhelming issue which union workers will use to decide their choice."

Books should be returned

Books borrowed for the Spring Semester by faculty and graduate students from Pattee Library are due June 1, according to Elsa C. Lisle, circulation librarian. The books should be returned to the Circulation desk no later than that date, but may be renewed.

faculty BULLETIN

Vol. 47, No. 33

May 20, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty

BULLETIN

Weekly Publication

the Pennsylvania
State University

Information center

A reminder has been given by the department of public information that its information center, in charge of Mrs. Elinor Chamberlain, is available to faculty members who wish to obtain data on the University for use in papers or talks.

The information center was established a year ago to collect various types of information such as enrollment and building construction statistics, financial reports, historic dates, etc., from University departments and outside agencies, such as State and Federal offices, to relate Penn State's activities to those of the state and nation.

Mrs. Chamberlain also processes many types of questionnaires addressed to the University, such as enrollment studies, queries about the academic program, and special requests.

A current record is maintained of major University-wide or public events. This service is designed to aid departments or groups planning activities to avoid conflicts with other events, and faculty members are urged to provide Mrs. Chamberlain with data on coming events to make the calendar as useful as possible.

Personnel matters

Emeritus rank granted seven

Seven members of the faculty have been granted emeritus rank by the Board of Trustees. They include John Lupton Mecartney, Edwin H. Rohrbeck, Harrison M. Tietz, Robert D. Scheirer, Norman R. Sparks, Della J. Avery, and Ina Padgett.

J. L. Mecartney, who retired Mar. 1, served on the faculty for 32 years in pomology. A University of Maryland graduate, he took graduate work at Cornell before his appointment as assistant professor of pomology extension in 1928. He served as extension specialist for 18 years, advising commercial growers throughout the State. In 1946 he transferred to resident teaching and research, in which he was concerned with nut tree culture, rodent control in orchards, and variety testing of grapes, peaches, and nectarines.

Norman R. Sparks will retire July 1 as professor emeritus of mechanical engineering. He served on the faculty since 1924 and has been head of the department since 1946. He attended Clarkson College of Technology in Potsdam, N. Y., where he was granted bachelor of science and mechanical engineer degrees. In 1923 he was employed by the New York Central Railroad and a year later was named instructor in mechanical engineering at Penn State. He served in the U. S. Navy during World War II, with duties at Penn State and Cornell in diesel training programs.

Robert D. Scheirer will retire Oct. 1 with the rank of professor emeritus of civil engineering. A 1922 graduate in civil engineering at Penn State, he was named instructor after graduation, assistant professor in 1938, associate professor in 1946, and professor in 1957. During World War II he served for four years in the civil engineering corps of the U. S. Navy, as lieutenant, lieutenant commander, and commander. He has at various times been an assistant to the State College Borough Engineer, the Centre County Surveyor, and to the department of physical plant engineers on a part-time basis. He is a registered professional engineer.

Ina Padgett will retire July 1, with the rank of professor emerita of foods and nutrition, after serving 32 years on the faculty. She graduated from Georgia State College of Women and obtained bachelor of science and master of science degrees in nutrition from Columbia University Teachers College. She served as research assistant in chemistry and instructor in food research for a number of years at Columbia before coming to Penn State in 1928. She has served on many University and College of Home Economics committees in her many years at Penn State.

Della J. Avery has been named professor emerita of child development and family relationships, effective July 1. Miss Avery was a recipient of the University's citation for excellence in teaching last year. A graduate of Temple University, she was granted the master of science degree by Penn State and she also did graduate work at the University of Chicago and Cornell. Before coming to Penn State in 1937 she taught in Arkansas and at Erie and Reading, Pa. and had supervised student teaching in home

economics at Western Maryland College and was head of the department there.

Dr. Harrison M. Tietz will retire on July 1 as professor emeritus of anatomy and physiology. A graduate of the University of Massachusetts in 1921 he was granted the master of science degree in botany in 1923 by his alma mater and the doctorate in chemistry in 1928. From 1924 to 1926 he was assistant entomologist at the United States Department of Agriculture bureau of entomology and came to Penn State in 1926. His teaching included courses in zoology, parasitology, insect morphology and taxonomy, human physiology, and others. He has served on many committees of the University.

Edwin H. Rohrbeck retires July 1 as professor emeritus of agricultural extension, after serving on the faculty since 1924. A graduate of the University of Wisconsin in agronomy in 1924, he was granted the master of science degree at Wisconsin in 1928. He joined the staff here as instructor in agricultural extension after a short stint on the Milwaukee Journal doing news and feature writing on agricultural subjects. As extension editor, he has been responsible at various times for news and feature stories, radio broadcasting, and editing of extension publications. He has been extremely active in community affairs over the years.

Dr. Elmer W. Hartsook, associate professor of animal nutrition, will serve as nutritional consultant on a survey team in Colombia, beginning June 1. He has been granted a three-month leave of absence, and will spend approximately eight weeks in the South American country as a member of the team organized by the Interdepartmental Committee on Nutrition for National Defense.

Dr. Clyde G. Corle, associate professor of education, has been awarded a Fulbright lectureship to serve on the faculty of the University of the Philippines, as a lecturer in the area of school administration and supervision. He will leave about June 15 to take up his duties as a member of the faculty of the College of Education to work primarily with graduate students and faculty of the College and with supervisors and administrators from the public schools of the Philippines.

Dr. Dorothy Houghton has been named associate dean for resident instruction in the College of Home Economics. She has served as assistant dean since 1952. Before coming here she had taught at Teachers College, Columbia University and The Packer Collegiate Institute. She is a graduate of Barnard College and obtained master of science and doctor of philosophy degrees from Columbia.

Dr. Barbara E. Densmore, who received her doctor of philosophy degree from Penn State in January, has been named as-

(Continued on page three)



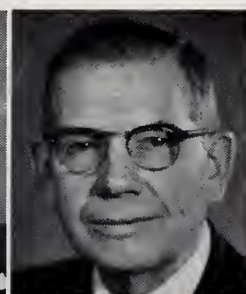
Mecartney



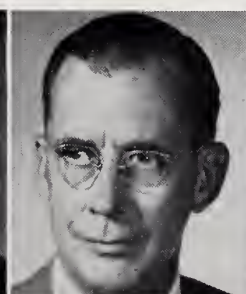
Padgett



Avery



Rohrbeck



Sparks



Tietz

Senate Minutes

(Continued from last week)

R. E. Larson, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report which had been distributed with the agenda as appendix "F" and asked that the three parts be considered separately. He moved that the recommendations one through seven in part "A" (Advising) be adopted as follows:

1. Advising should be more widely considered as an important counseling function not limited to routine help in drawing up a student's schedule.

2. Assignment to advising duties should be recognized as a distinct portion of an academic assignment. Adequate office hours should be set aside for both consultation with students enrolled in the faculty member's classes and his advisees.

3. New advisers should know advising rules and procedures and be acquainted with the functioning of the University's total advising and counseling system.

4. Clerical help should be used to relieve the adviser of as much of the paper work of registration as is possible.

5. That the following statements define types of advising or counseling and the role of faculty, other individuals, and University agencies in this function:

Educational Guidance refers to helping students choose and plan a series of educational experiences which will contribute toward particular educational goals. This would include choice of curriculum, choice of major within a curriculum, development of course schedules, planning changes of curriculum or educational objectives, and helping students cope with educational difficulties.

Career Counseling refers to helping students choose and plan for career goals. This is related to educational guidance but is not the same thing. Educational guidance involves helping students choose and successfully traverse a road to career goals. The choice of a career goal through career counseling limits, but does not predetermine the choice of a pathway or curriculum. Thus career counseling involves helping students match their talents, aspirations, personality, and preferences with the activities, requirements, and satisfactions offered by a variety of career fields.

Personal Counseling involves helping students with worries and distractions which may interfere with effective learning. This kind of counseling might be described as removing nonacademic obstacles which might obstruct progress on a road chosen toward a student's career goal.

The Teacher emphasizes educational guidance and occasional career counseling with respect to his particular area of specialization.

The Faculty Adviser and Assistant Deans tend to emphasize educational guidance. However, they are likely to enter into career counseling to a somewhat greater extent than the teacher. The assistant dean, in particular, may have to consult with students over a broad range of career possibilities. Personal counseling is likely to be limited to occasional reassurance and advice.

The Division of Counseling emphasizes career counseling and personal counseling. This group, in cooperation with academic colleges and departments, is informed of all career possibilities to that it can help the student narrow career goals to a relative few. Though perhaps the greatest bulk of time is spent in this task, the Division also does a great deal of personal counseling ranging from simple to very involved behavioral difficulties.

The Offices of the Dean of Men and the Dean of Women emphasize personal counseling. They are primarily involved in all out-of-class aspects of a student's life. However, their staff is not specifically trained to handle the more complicated kinds of behavioral difficulty.

Residence Hall Counselors because of

their close contact with the students are involved in all three kinds of counseling problems. However, their emphasis is on the day-to-day problems of the students and will not require any great depth in their advice on career and educational counseling.

Special Services are provided by the University to handle personal counseling which requires special skills or training. Among these are the Speech and Hearing Clinic, the Student Health Service, the Psychiatric Service, the Psychology Clinic, the University Chaplains and Student Pastors, the Co-ordinator of Student Activities, the Foreign Student Advisor, and the University Co-ordinator of Scholarships.

6. That faculty and students alike should be made aware of the distinct advising functions of each of the above and how they interact to accomplish the various types of advising and counseling. This could be accomplished by including this information in the *Manual of Procedures for Teachers* and in the *Penn State Student Handbook*.

7. That each of the above individuals or agencies should refer difficulties beyond their competence to the appropriate individual or agency responsible for this particular type of advising problem. The Division of Counseling is to be used as a central referral point when direct referral cannot be made.

The motion was seconded and passed.

Mr. Larson moved that recommendations one and two in part "B" (Preparation for New Teachers) be adopted. The motion was seconded. During the discussion L. H. Lattman moved an amendment to add the sentence:

This training program for new staff members is to be instituted at the request of the new instructor.

The motion was seconded and defeated. After considerable discussion Mr. Larson's motion was passed as follows:

1. All Colleges institute a training program for new staff members who have had little or no prior experience in teaching and who will be responsible for lecturing, conducting recitations, and preparing tests.

2. This training program should include some combination of:

a. Orientation by the staff on the course content, methods of teaching, and manner of testing for courses offered by the department. This shall not be utilized for

forcing the new instructor into the departmental mold and killing his initiative.

b. Reading on teaching and testing methods.

c. Attendance at courses designed for training college teachers. Present courses may be used for this purpose and new ones developed as needed.

d. Visitation by senior staff members to the new instructor's classes during his probationary years of teaching. These visitations will be utilized for evaluating progress and to permit constructive criticism.

e. Tape recording and/or filming of the new teacher's lectures for his own self evaluation and improvement.

Mr. Larson moved that recommendations one and two in part "C" (Examination Techniques) be adopted as follows:

1. That the Division of Academic Research and Services be charged with making a study of the literature concerning examinations, with distributing the results of the study among the faculty, and with making the people involved in the study available for consultation with individual members or groups of the faculty who desire more information, and, if this first step is found useful to the faculty:

2. That this service should be continued by DARS and consideration given to the creation of a permanent Measurement and Evaluation Center to aid departments in improving their testing procedures.

The motion was seconded and passed.

He moved adoption of recommendations one and two in part "D" (Teaching Aids) as follows:

1. That all segments of the University, particularly individual departments and groups that have been responsible for experimentation on teaching aids in the past, make every effort to undertake experimentation with all types of teaching aids, and

2. That we proceed to adopt those that have proven merit.

The motion was seconded and passed. The complete report is on file in the office of the secretary.

The next regular meeting of the Senate will be on Thursday, June 2, 1960 with the agenda being distributed on May 19, 1960. Chairmen of the various committees are reminded that annual reports *IN DUPLICATE* will be due at the June meeting. The meeting adjourned at 5:29 p.m.

Robert G. Bernreuter
Secretary

News in Brief

➤ **BLUE BAND:** The Penn State Concert Blue Band will give its concluding concert of the year on Sunday, May 29 at 3 p.m. on the steps of the Library, or, in case of rain, in Schwab Auditorium.

James Dunlop, director, has arranged a "pops" concert, featuring many of the most popular band compositions. Twenty eight seniors will play their final concert.

➤ **CLOSED:** University offices, with the exception of those required for the maintenance of the academic program, will be closed on Memorial Day, Monday, May 30. The final examination period, which began on Saturday, May 28, will continue daily until June 6.

The Rev. Preston N. Williams will preside at a service in The Chapel at 9 a.m. Capt. J. P. Roach, professor of naval science, will speak. Following the service wreaths will be placed at several sites on campus.

➤ **SENATE:** The University Senate will meet on Thursday, June 2, at 4:15 p.m. in Room 121 Sparks.

➤ **STICKER:** A new type of parking permit sticker will be issued to faculty and staff members and to students this summer and fall.

The sticker is of a decal type and will be attached to the front and rear bumpers of the car. It is permanent in nature and therefore there will be no need to reissue stickers yearly. The sticker will contain only the parking area number. Identification of the car will be made through the state license.

➤ **ASEE PRESIDENT:** President Eric A. Walker has been elected president of the American Society for Engineering Education, and will assume the position in July. He succeeds Dr. B. R. Teare, Jr., dean of the College of Engineering and Science at Carnegie Tech. Dr. Walker served as vice-president of the Society from 1952 to 1954.



Frank S. Neusbaum, professor of theatre arts, has had a long association with Penn State Players, which this year has celebrated its 40th birthday. An exhibit at Pattee Library points up highlights of Players' life.

Players exhibit recalls 40 years

PENN STATE PLAYERS is featured in an exhibit currently on display at Pattee Library. The exhibit will remain through Alumni Reunion time in June.

The display depicts the 40-year history of Players. In 1919, a faculty committee of Arthur Cloetingh, William S. Dye, Dean of Men Arthur R. Warnock, Dean of Women Margaret Knight, and David D. Mason met with a few students to draw up a new organization devoted to dramatics. On Feb. 20, 1920, Players presented its first program.

Arranged in floor and wall cases are photos and program materials and other memorabilia regarding plays produced since that time, arranged at five-year intervals. In one wall case is a separate exhibit related to the 40th Anniversary production, *An Italian Straw Hat*, which was directed by Frank S. Neusbaum, professor of theatre arts. He became associated with Players in 1922-23, when, as a freshman, he toured the State as a member of the cast of *A Successful Calamity*.

Calendar

Friday, May 27

Mineral Industries Colloquium, 4:15 p.m., Mineral Industries Auditorium. Dr. Robert Woodthl, visiting research associate in geophysics, on "Mineral Resources of North-eastern Congo."

Saturday, May 28

Final examinations begin, 8 a.m.
Pennsylvania Interscholastic Athletic Association championships in track, golf, tennis.

Sunday, May 29

Protestant Service of Worship, 9 a.m., Helen Eakin Eisenhower Chapel. Miss Genevieve Dilts.

Roman Catholic Mass, 9 a.m., Schwab Auditorium.

Chapel Service, 10:55 a.m., Schwab Auditorium. The Reverend Preston N. Williams, acting University chaplain.

Concert by the Penn State Blue Band, James Dunlop, conductor, 3 p.m., on the Mall; Schwab Auditorium in case of rain.

Thursday, June 2

Senate meeting, 4:15 p.m., Room 121 Sparks.

Next Month

June 11—Spring Semester Commencement.

June 14—Intersession classes begin.

June 16-18—Alumni Class Reunions.

June 20—Mateer Playhouse opening.

June 27—"Middle of the Night," at Mateer Playhouse.

June 30—Summer Artists Series, Claude Frank, pianist.

July 1—Intersession ends, 6:20 p.m.

July 4—"The Gazebo" at Mateer Playhouse.

July 6—Midsession begins.

Television Broadcasts

WFBG-TV, CHANNEL 10

Saturday, May 28—"From the Bookshelves," with Dr. Lyman C. Hunt, 9-9:30 a.m.

Monday, May 30—Also each weekday, Farm Home and Garden program, 12:30 p.m.

Guests: W. H. Folwell, Eric A. Walker, Ruth Ball, Garner Mitchell, Paul Reber.

Emeritus —

(Continued from page one)

sociate professor of clothing and textiles in the College of Home Economics to teach graduate courses and textile courses to undergraduates and engage in research. Michigan State graduate, she received the master of science degree from Iowa State. She has taught in high schools in Michigan and at Kansas State College.

Dr. Irving Michelson has resigned as professor and head of the department of aeronautical engineering, effective June 30, to accept a position as professor and director of the Aeronautics Laboratory at Illinois Institute of Technology, where he will also be affiliated with the Armour Research Foundation.

Dr. John R. Mentzer, professor of engineering sciences, will be on leave during July and August to conduct research on theoretical physics at the Sandia Corp., Albuquerque, N. M., as he did last year.

Dr. Clark C. Spence, assistant professor of history, has been granted a year's leave of absence to serve as lecturer at the University of California, beginning in July. In addition to lecturing, he will do research on the development of western mining frontiers. This summer he will be in Washington to do research on the development of the western mine frontier with a grant from the Social Science Research Council.

Samuel S. Lesiz, assistant professor of mechanical engineering, will begin a year's leave of absence on July 1 to study toward his doctor of philosophy degree in mechanical engineering at the University of Wisconsin under a National Science Foundation Faculty Fellowship.

Dr. Robert T. Oliver, head of the department of speech, has been granted a leave of absence for the fall semester to serve as guest professor at Los Angeles State College.

Legislators here

Twenty-two members of the Pennsylvania Senate and House appropriations committees visited the University May 18th and 19th. They were the guests of President Eric A. Walker, who discussed the problems of higher education with especial emphasis on Penn State. The legislators also toured the campus facilities.

Dr. Leroy Chapman, chairman of the Senate committee, and Dean Polen, chairman of the House committee, headed the two delegations. President Walker said the adoption of annual sessions would improve the chances of bringing legislative committees to the campus annually as had been done in the past. Other visits are scheduled this summer and Fall.

Artists series

The program for the 1960-61 Artists Series has been announced, as follows:

Aug. 4—Richard Dyer-Bennett, folk singer.
Oct. 9—National Symphony Orchestra.
Oct. 19—Leon Fleisher, pianist.
Oct. 30—Archibald McLeish, in "J.B."
Nov. 10—Fischer-Dieskau, baritone.
Nov. 20—Marcel Marceau, pantomimist.
Dec. 1—Societa Corelli, chamber orchestra.
Jan. 8—Robert Shaw Chorale.
Feb. 12—Pittsburgh Orchestra.
Feb. 18—Merce Cunningham and Dance Co.
Mar. 19—Errol Garner, pianist.
Mar. 24—Victoria de Los Angeles, soprano.
Apr. 9—National Ballet of Canada.
Apr. 20, 21—Andres Segovia, guitarist.
Apr. 21—James Reston (lecture).
May 2—Ronald Roseman, oboist.

Items of Interest

THE ARTS

VAN DOMMELEN, home arts, exhibiting at the 15th National Decorative Arts and Ceramics Exhibition, Wichita, Kan., April 16-May 21.

BOOKS

JACOBS, ALAN. M., nuclear engineering, REMICK, F. J., Reactor, and DONALD E. KLINE, HRB-Singer, Inc., a text, "Basic Principles of Nuclear Science and Reactors," published by D. Van Nostrand Co.

RAY, W. S., psychology, a textbook intended for a one-semester graduate course, "An Introduction to Experimental Design," published by The MacMillan Co.

ELECTED OR APPOINTED

DENNIS, L. E., vice-president, elected to the executive committee of the Association for Higher Education for a three-year period.

FOWLER, H. S., nature and science education, appointed by the National Science Teachers Association to head its committee on the review of science teaching materials.

GOTOLSKI, W. H., civil engineering, elected president of Central chapter of the Pennsylvania Society of Professional Engineers.

KRAUSS, FRANKLIN, Romance languages, re-elected editor for the Atlantic states, the editorial board of *The Classical Journal*, for the 16th consecutive year.

LENSON, HILDA, Altoona campus, appointed to the Executive Council of the Pennsylvania State Modern Language Association.

LEOPOLD, ANNA S., Altoona campus, appointed to the Governor's Committee on Aging, for Blair County.

MACKENZIE, OSSIAN, Business Administration, named a member of the Standards Committee of the American Association of Collegiate Schools of Business.

DEASY, G. F., geography, elected vice-president of the Pennsylvania Academy of Science.

KARDOS, L. T., agronomy, appointed to the American Society of Agronomy Site Location Committee, to evaluate alternative sites for the establishment of a headquarters building for the Society.

KNIFFIN, F. W., marketing, appointed chairman of the Committee on Sales Management, American Marketing Association, for 1960-61.

MARIN, JOSEPH, engineering mechanics, invited to serve as consultant for the Lawrence Radiation Laboratory, Univ. of California, on high temperature properties of materials and solid state mechanics problems dealing with developments in nuclear energy fields.

RUEF, RUTH H., family economics and housing, appointed by the State Secretary of Labor and Industry to a committee to determine housing, clothing, food, and other costs necessary for the maintenance of healthful and efficient living conditions for women employed in Pennsylvania.

LECTURES AND TALKS

ASHBY, J. D., Counseling, in a panel discussion on the topic, "Where are the Engineering Freshmen," at the meeting of the Allegheny Section of the American Society for Engineering Education, at Bucknell University, April 22.

CORSO, J. F., psychology, a series of talks on the subject, "A Management Program for Human Factors Engineering," to the Composite Middle Management Development Program in Harrisburg.

DODSON, ELLIOTT, mechanical engineering, a talk on "Trends in Engineering Education" for the Anthracite-Lehigh Valley section of the American Society of Agricultural Engineers.

DUQUET, R. T., meteorology, a series of lectures at Emory University, North Carolina College, Virginia Polytechnic Institute, and Canisius College, as visiting scientist of the American Meteorological Society.

EICHE, R. E., Altoona campus, a panel member of the American Association of Junior Colleges Convention in Louisville, on the subject, "Methods and Procedures for Evaluating Teachers and Teaching."

HARRIS, D. B., psychology, an address at a meeting of the Association for Childhood Education International, in Cleveland and a paper at a meeting of the Midwestern Psychological Association in St. Louis, Mo. Also an address before the National Congress of Parents and Teachers, in Philadelphia, May 23.

MONTGOMERY, J. E., housing and home art, a talk on "The Human Aspects of Home Equipment," at the Texas Tech Residential Air Conditioning Conference.

PATRICK, R. B., secondary education, an address, "Can Professors Counsel," at the national convention of the American Personnel and Guidance Association.

PENDERED, N. C., industrial arts education, an address before the sectional meeting of the 22nd annual convention of the American Industrial Arts Association, at Toronto, on the theme, "Industrial Understanding—Implications for Industrial Arts."

RACKLEY, J. R., Education, an address, "Teacher Education—Whither and Why?" at the national convention of the American Personnel and Guidance Association, in Philadelphia, April 10-14.

REEN, C. G., civil engineering, a talk on "Professional Registration" before the Pennsylvania Section, American Society of Agricultural Engineers.

WEINTRAUB, STANLEY, a lecture on "Lawrence of Arabia: Improbable Shavian" at the Grollier Club, New York.

WHERRY, R. H., insurance, an address on "Insurance is Geared to Progress" at the annual convention of the Pennsylvania Association of Insurance Agents on May 9, at Hershey.

ARTICLES AND PAPERS

At the annual meeting of the Mississippi Valley Historical Association, papers by these history department members: P. S. KLEIN, on "New Light on James Buchanan"; C. C. SPENCE, on "Early Uses of Electricity in American Agriculture"; and R. K. MURRAY, on "The High School and College Teacher of History—Avenues of Cooperation, Present and Future."

BROWN, J. L., JR., engineering research, a paper, "Mean Square Truncation Error in Series Expansions of Random Function" in the March issue of the journal of the Society for Industrial and Applied Mathematics.

CARPENTER, C. R., DARS, a paper on "Approaches to Promising Areas of Research in the field of Instructional Television" published by the Institute for Communication Research at Stanford University.

CLARK, R. E., on "How Effective is Imprisonment" and LEVENTMAN, JUDITH K., on "Children of the Gilded Ghetto: Marital Role Definitions among Third Generation Jews," both at the Eastern Sociological Society meeting in Boston on April 22-23.

FORSTER, KENT, an article, "The Finnish-Soviet Crisis of 1958" in the Spring issue of International Journal, a Canadian Quarterly published by the Canadian Institute of International Affairs.

FRENIERE, E. A., Altoona campus, an article "Through a Glass Eye Brightly" in the Journal of General Education.

KLAUSS, E. E., TEWKSBURY, E. J. and FENSKE, M. R., petroleum refining laboratory, a paper, "A Critical Comparison of Several Fluids as High Temperature Lubricants" at the Symposium on Lubrication under Extreme Conditions, before the Division of Petroleum Chemistry of the American Chemical Society in Cleveland.

KRAUSS, F. B., Romance languages, a paper on "World Communication or World Chaos" at the meeting of the Pennsylvania State Association of Classical Teachers, on May 14 at Lebanon Valley College.

SKELL, P. S., chemistry, a paper on "The Chemistry of Divalent Carbon" before the Gordon Research Conference on Organic Reactions and Processes at the New Hampton School on July 25.

SMITH, G. W., chemistry, an article in the March, 1960, issue of *The Science Teacher* on "Difficult Concepts in Beginning Chemistry."

SORAU, F. J., political science, a paper titled "The Relationship Between State and Presidential Nominating Politics" at the recent meeting in Harrisburg of the Pennsylvania Political Science and Public Administration Association.

WEAVER, R. G., English, an article in the April issue of *Industrial Science and Engineering* on "Letters That Get Interviews."

faculty BULLETIN

Vol. 47, No. 34

May 27, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY.

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Directory information

Faculty members and departments should make certain now that the information contained in the current Faculty Directory is correct, or should send necessary corrections (on official directory cards) to the Chief Operator, Telephone Building, before Aug. 20.

Preparation of the new directory will begin during summer months so that it is available when the Fall Semester begins. Unless changes have already been provided or will be before the deadline, the information contained in the new directory will be the same as that in the 1959-60 directory.

Individuals should check carefully that their title, office and home addresses, office and home phone numbers are correct.

Departments are asked to check the listings to remove any persons no longer employed by the University. They should also check the departmental listings in the back pages of the directory.

Official telephone directory cards are in most departmental offices. Additional cards may be obtained from the Chief Operator, UN 5-6202.

Tennis club

A tennis club, enlisting faculty and staff members, graduate students, and townspeople, has been organized, and will make use of the six varsity tennis courts near the Ice Rink. Play will begin June 13.

Use of the Nittany Locker Rooms is available to club members, and laundry service also. Further information may be obtained from G. N. Thiel, UN 5-2162, 214 Rec Hall. Dues in the club are payable at the Athletic Association office, 249 Rec Hall.

Before State task force

President pinpoints problems

(On May 25, 1960, Dr. Eric A. Walker made two presentations concerning higher education before the Task Force on Higher Education of the Governor's Committee on Higher Education. In one, he represented the Pennsylvania Association of Colleges and Universities, as its president, and in the other he spoke as president of the University. Below are only two of the many topics he discussed in these presentations.).

* * *

Council On Higher Education

THE Pennsylvania Association of Colleges and Universities has repeatedly expressed its support of (1) the recommendation of the Governor's Commission on Higher Education for the establishment of a Commission on Higher Education and (2) House Bill No. 1941, Session of 1959, an act designed to create a State Council of Higher Education...

* * *

This is the situation that has led to the establishment in many states of coordinating agencies to provide state-wide leadership in higher education. In general, such agencies are expected to provide better education with greater efficiency and improved economy through sound planning based on the interpretation and analysis of comprehensive data. In this way, these agencies are expected to achieve a better utilization of both state and institutional resources; an orderly, planned expansion to meet the state's needs in higher education; an increased degree of cooperation among the different institutions of higher education; and an improved quality of collegiate and university programs and services within the state.

Three broad functions have been widely recognized as appropriate for such agencies: (1) research and planning to determine the needs and set the goals for higher education within the state and to establish policies to meet those needs and goals, (2) the analysis and interpretation of appropriations requests on the basis of common assumptions and objective data in order to recommend an equitable and productive distribution of the state's resources, and (3) coordination of the state's capital budget for physical-plant expansion and renewal at institutions of higher education. A function often added is that of providing the independent institutions with comprehensive facts and information in order that they

might contribute most effectively to the realization of state-wide plans and goals. . . .

The greatest need for and the first responsibility of this agency is that of collecting objective, meaningful data—of establishing a clear, sound, intelligently interpreted body of fact and information. Such information is urgently needed to serve as a basis for the formulation of policy and the construction of plans that can give direction and purpose to administrative decisions, proposed legislation, the distribution of state resources, institutional aims and objectives, and the like.

* * *

But if information on which to base institutional and state-wide planning and coordination is inadequate for instructional programs, it is practically nonexistent for research and adult-education programs. To my knowledge, no attempt has ever been made to determine the nature and extent of the Commonwealth's total participation in programs of basic and applied research, to collect data indicative of the immediate and long-range needs of the state for research, or to make an inventory of the state's research potential in terms of knowledges, competences, and facilities. There is, of course, a close connection between the research effort of the state and the development of programs of graduate instruction.

* * *

Except for programs of Agricultural and Home Economics Extension, Pennsylvania has never given any support to adult-education programs.

* * *

The first need, then, is for a responsible body that can gather facts and conduct research on which it can base plans and policy recommendations that will provide educational opportunities that meet the needs of the state as effectively and as efficiently as possible. From this over-all responsibility stem several specific ones.

The first of these concerns the distribution of the state support for operation and maintenance to institutions of higher education.

* * *

Two additional and closely related functions that should be performed by a state council of higher education are those of approving new degree programs and recommending the establishment of new institutions. The approval of degree programs has a determining influence on the intelligent, informed

(Continued on page two)

Sorauf says patronage waning

POLITICAL patronage is on the wane, says Dr. Frank J. Sorauf, assistant professor of political science, and the decline of the system will serve to speed the establishment of some measure of party discipline now lacking, and to promote a greater centralization of the two political parties.

Writing in *Public Administration Review*, in an article titled "The Silent Revolution in Patronage," Dr. Sorauf says:

"The federal government has almost completely been conquered by one form or another of merit appointment, while the traditional political machines, long the major consumers of patronage, are everywhere else in hurried retreat."

It has been estimated, Dr. Sorauf points out, that the federal patronage available to the present administration has not exceeded a fraction of one per cent of the total federal establishment. An exact estimate of patronage in local

Pennsylvania, says Dr. Sorauf, is an exception to the general principles outlined in the accompanying story. The 50,000 or so patronage jobs available in the Commonwealth give it more patronage to distribute than any other state. This is true even though civil service has made significant inroads into patronage in the last eight years in Pennsylvania.

Why does so much patronage exist and persist?

"At least two major reasons are suggested," says Dr. Sorauf. "In a state where so much unemployment and underemployment exist, the demand for public employment is tremendous. Secondly, a party built on patronage (as the two parties are in many sections of Pennsylvania) attracts people who want the public job and who, therefore, have a real vested interest in maintaining the patronage system. Therefore, patronage builds patronage-oriented parties."

and state governments is impossible to obtain, but it is generally agreed that it is on the decline. However, there are states where large numbers of positions remain at least technically available for distribution (in Pennsylvania, some 50,000).

Patronage is said to have a number of uses: 1. maintaining an active party organization; 2. promoting intra-party cohesion; 3. attracting voters and supporters; 4. financing the party and its candidates; 5. procuring favorable government action; and 6. creating party discipline in policy-making.

"The relative merits of each of these uses," says Dr. Sorauf, "can be seriously debated, but certainly it can be said that regardless of the effectiveness of patronage in the past, it is today undergoing rapid changes.

"Patronage can destroy intra-party cohesion as readily as it promotes it. Political appointees do contribute to the party treasuries, but hardly enough in these days to run the party. Perhaps in the areas of attracting voters and in maintaining an active organization is patronage effective."

Tracing the decline of patronage, Dr.

Sorauf says that merit systems make their greatest inroads into patronage in the well-paid, specialized positions where the call for expertness and training is greatest. The parties are left the less desirable, poorly-paid positions. But low pay and chronic insecurity plague the patronage jobholder and private employment has become progressively more attractive with rising wage levels and other benefits.

Resulting in part from this trend and in part from others is a development of considerable significance to political parties: the partial passing of the boss and the political machine. These machines depended heavily on the motive power of patronage, flourishing especially in the urban centers inhabited by the large groups of immigrants and minorities.

"This is not to suggest that political machines have vanished or even that they will vanish in the next generation," Dr. Sorauf explains further. "But the machine, and the politics of the underprivileged on which it rests, is surely on the decline."

The interest group—local labor union, chamber of commerce, etc.—is now increasingly favored by the party as a means of recruiting voters and replacing the old-style face-to-face campaigning. Business and labor are major sources of party funds; contributions of payrollers no longer are sufficient. The "new style" political leader usually has closer ties to prestige groups in the community than the classic model of the boss politician, and he may have been recruited from one of them.

Dr. Sorauf believes that the decline of patronage will weaken the influence of governors on actions of their legislatures more than the President's influence on Congress. As a result, he adds, it is a justifiable supposition that further loss of patronage will make gubernatorial leadership much more difficult.

Ultimately, the decline of patronage will help to hasten the centralization of political parties, heighten their ideological content, place greater reliance on group participation, lead to greater nationalization of the candidate image and party campaigning, and establish some measure of party discipline.

But, he adds, patronage will not die without a fight from some politicians who feel that the party needs the strength of patronage, however minor it might be.

President—

(Continued from page one)

development of academic diversity to serve the demonstrated needs of the community and the state; on the reduction of unnecessary and costly duplication of programs; and on the encouragement of efficiency and economy. This is especially important in the area of graduate instruction. The establishment of new institutions is an expensive undertaking with grave implications for long-range academic and financial commitments.

* * *

A very important function that should be performed by a state council of higher education is that of state-wide planning in the area of graduate work. In this area, both instructional and facility costs are high, duplication is expensive, and quality is dependent upon the wise utilization of a few outstanding scientists and scholars. Not all institutions are qualified to offer graduate work, and none is capable of providing significant graduate programs in all fields. Yet the research competence of the state is today a vital factor in its growth and development, and the wise use and sound expansion of this competence must receive a high priority in planning for the future. There is, then, a great need for a competent body that can collect facts about the research potential of the Commonwealth, conduct planning to correct deficiencies in and to increase the quality of graduate work in the state, encourage inter-institutional and even inter-regional cooperation, and recommend the distribution of the state resources for research and graduate programs.

A high degree of coordination and cooperation among Pennsylvania colleges and universities is necessary if the Commonwealth is to meet its educational needs of 1970 and beyond with an improved system of higher education commensurate with the characteristics and needs of its youth and with the requirements of the Commonwealth. It is the opinion of the Pennsylvania Association of Colleges and Universities that this coordination can be accomplished most effectively by a responsible educational body created for this purpose and invested with appropriate authority, powers, and duties. Such a body is needed to provide positive and informed leadership in higher education in the Commonwealth.

* * *

JUNIOR COLLEGES

THE best possible answer to the need for expansion of educational opportunity in the Commonwealth, as we at Penn State and others see it, is to be found in the two-year college. There

are several reasons why we believe this to be true.

First, there is the matter of cost. Education can usually be provided less expensively at a two-year institution than at a four-year one. Education at this level does not require as extensive laboratory and library facilities as does education in the upper classes and in graduate schools. The research appropriate to faculty members teaching basic courses is less costly than is research appropriate to members of the graduate faculties. There is need for fewer small seminar classes at the lower levels. In addition, the student can live at home while attending classes, eliminating resident board and room costs and the need to build dormitories. For these reasons, collegiate work provided by a two-year institution located within commuting distance of the student's home is less expensive for both the student and the Commonwealth.

In the second place, junior colleges can offer a unique combination of types of programs that are greatly needed in our society today but for which inadequate provision has been made in our educational enterprise. These types of programs include, as I pointed out in my presentation this morning, (1) two-year terminal programs of technical and semi-professional education, (2) two-year terminal programs of general education, (3) adult continuing education, and (4) the first two years of the four-year baccalaureate program. In addition to other advantages, this last type of program often provides a helpful transition period for many students. These are the students who find the adjustment between high school and the university a difficult one to make. Two years spent at a relatively small institution among familiar surroundings can help these students bridge the gap.

* * *

The adoption of this policy [the considerations given by Penn State when it is attempting to decide whether to expand the system of Commonwealth Campuses.] provides Pennsylvania with a sound, logical, and relatively inexpensive mechanism for meeting part of the educational crisis it faces. But it does more than this.

1) It provides each campus in the Commonwealth System with the administrative and academic stability of a great state university.

2) As a component unit of The Pennsylvania State University, each campus, including those that might be established in the future, is fully accredited by the Middle States Association, and credits earned at the campuses are transferred not from a local junior college but from the state university.

3) The two-year associate-degree programs offered at the campuses will have the benefit of Penn State pioneering work and national leadership in this important field, in addition to the academic competence of the University's Colleges of Engineering and Science.

4) The total resources and experience of the University will be available to all units of the System of Commonwealth Campuses. This is especially important in the field of continuing adult education, where traditional junior colleges in other states have often failed to provide significant programs, since many junior colleges lack the faculty, the facilities, and the orientation for them.

5) As operating units of a state university, the separate campuses will definitely offer only post-high-school, collegiate work.

6) Uniform admissions policies applied on a state-wide basis will ensure the elimination of sectional inequalities in admitting students, and each student admitted will have the advantage of Penn State's counseling services, which are receiving national recognition for their completeness and excellence.

7) The possibility of linking all units of the state university system through television adds new and exciting dimensions to this system by providing the possibility of bringing to all units the most outstanding faculty members of the total University complex.

8) It provides each faculty member with better career and research opportunities than could be obtained in any local junior college as we enter a period when faculty shortages are going to become very critical.

9) Perhaps most important of all, this system makes available Penn State's quarter of a century of experience with operating two-year institutions. This advantage has implications not only for efficiency of operation and management but also for both the cost and the quality of the educational programs.

* * *

If this analysis is correct, it is clear that the need for expansion of collegiate opportunity is not spread uniformly across the state. Since public higher education is now within commuting distance of practically all Pennsylvanians, there would seem to be little immediate need to establish new institutions to serve this purpose. Further, the concentration of population and indications of future growth in many areas of the state would seem to indicate that the existing institutions could be expanded adequately to handle the increased number of students that will be applying for admission in the next few years. This is especially true since most of these institutions are comparatively small ones that could probably become more efficient operating units and more effective educational establishments with the addition of more students. . . . The immediate need for expansion of collegiate opportunity, then, would seem to be concentrated within the metropolitan areas of Philadelphia and Pittsburgh.

To meet this need, I suggest that the Commonwealth establish immediately two new campuses and expand significantly the capacity of three existing ones. New campuses would be constructed in the suburban area north of Philadelphia and south of the Allentown-Bethlehem-Easton complex—we have informally called this the "Quakertown Campus" in our discussions—and in the area north of Pittsburgh, perhaps in the Allison Park district. The institutions that would be expanded include the West Chester and the Cheyney State Colleges (we have actually considered these to be one institution in our planning because of their proximity) and the McKeesport Campus of The Pennsylvania State University.

News in Brief

► **DIED:** Dr. Viktor Lowenfeld, professor and head of the department of art education, died on Wednesday, May 25, at the Centre County Hospital in Bellefonte. He had been a patient there since April 7 when he collapsed as he stood to speak at a meeting of the Senate.

A native of Austria, he came to this country in 1938 and came to Penn State in 1946 from Hampton Institute, where he was head of the art department.

► **GLEE CLUB:** The Penn State Glee Club, directed by Frank Gullo, will be heard on the Armed Forces Press, Radio and Television Service program, "On The Campus," on June 16. The program is broadcast to the armed forces overseas. The series of programs already arranged includes performances by students of more than 60 colleges and universities.

► **LION'S DEN:** The Lion's Den and Grill in the Hetzel Union Building will be open during June, July, and August from 7 a.m. to 2 p.m. for counter service, Monday through Friday. At other times, snacks will be available from vending machines, as in the past.

At the Terrace Room Cafeteria, breakfast will be served this summer, beginning June 10, from 7 to 9 a.m., Monday through Saturday, and 9 to 10 a.m. on Sunday.

Items of Interest

THE ARTS

At the First Invitational Exhibition at Kutztown State College, exhibits by these members of the art and art education staffs: Yar Chomicky, Stuart Frost, George Pappas, and George Zoretich.

HONORS AND AWARDS

FARWELL, R. S., Jr., industrial engineering, named "Fellow" in the Society for the Advancement of Management, in recognition of his outstanding service to the Central Pennsylvania chapter and to the national organization.

HEEBNER, MACDONALD, Engineering, one of two men to receive the Silver Beaver Award for Distinguished Service to Boyhood, presented by the Juniata Valley Council, Boy Scouts of America, for outstanding work over a period of 20 years in activities of various types of benefit to boys.

WILLIAMS, A. L., insurance, named an honorary member of the American Society of Insurance Management.

ELECTED OR APPOINTED

SPENCER, O. F., correspondence instruction, appointed to a six-year term on the Pennsylvania Board of Private Correspondence Schools.

LECTURES AND TALKS

BOSCH, GERALD, education, a talk on "Education for the Future" at the Principals' Conference at Virginia Union University, Richmond, Va., in April.

BRAYFIELD, A. H., psychology, a member of a panel on the subject, "Psychological Manpower and Social Need," at the annual convention of the Pennsylvania Psychological Association.

CHATT, JOSEPH, chemistry, a seminar lecture on "Acetylene Complexes of Transition Metals," at the E. I. DuPont de Nemours and Co.; also a colloquium address on "Alkyl and Aryl Complexes of Transition Metals" at The Johns Hopkins University.

CLARK, R. E., sociology and anthropology, an address on "How Effective is Imprisonment," before the Eastern Sociological Society meeting in Boston.

FARWELL, R. S., Jr., industrial engineering, a talk on "Development of Management Personnel" before the American Foundrymen's Society, Pittsburgh Chapter.

GUEST, L. P., psychology, a talk before the Advertising Club of Harrisburg, on "A Peek into the Crystal Ball."

HARRIS, D. B., psychology, a series of ten lectures in developmental psychology during the week of June 19 at the University of Saskatchewan.

HASSLER, W. W., history, an address to the Philadelphia Junto on "General George B. McClellan in the Civil War."

KNIFFIN, F. W., marketing, a talk before the

Greater Harrisburg Sales Executive Club on "Business Decision Games and Their Application to Sales Management."

MARIN, JOSEPH, engineering mechanics, a series of lectures to a select group of technical personnel at the Humble Oil and Refining Co., Texas, on "Significance of Solid State Mechanics in Engineering Design."

McCOMB, R. W., Library, served on a panel to discuss Library Education, at the Spring meeting, County section, Pennsylvania Library Association, at Gettysburg.

PENDERED, N. C., industrial arts education, an address before the third annual meeting of the South Central Pennsylvania Industrial Education Teachers Association, on "Industrial Arts — Up or Down in the Sixties."

SEGEL, SIDNEY, psychology, a talk on his current research on choice and strategy behavior before the meeting of the New York Academy of Sciences.

SOMMERFELD, EDNA, Home Economics, a talk on "Your Responsibility for Public Relations" to teachers of home economics in public schools of Baltimore.

TRIBBLE, O. H., Continuing Education, a talk before the Independent Telephone Company Association Convention, June 8, on "Why Management Training."

WHERRY, R. H., insurance, featured speaker at the 53rd annual convention of the Pennsylvania State Association of Mutual Insurance Co., on "Human Element in Insurance."

WEYL, W. A., mineral industries, a talk on "The Rate of Hydration and Hydrolysis Reactions," before the American Chemical Society, Central Subsection, Elizabeth, N.J.

ARTICLES AND PAPERS

At the convention of the Eastern Psychological Association, a joint paper by Hall, J. F. and Prokasy, W. F., psychology, on "Stimulus Generalization of Absolutely Discriminable Stimuli"; also a paper by Hoffman, H. S., on "Auditory Stimulus Generalization in the Rat: Gradients of Approach and Avoidance."

BARNOFF, R. M., civil engineering, a paper in the May issue of the proceedings of the American Society of Civil Engineers' Structural Journal, on "The Effect of Floor Systems on Pony Truss Bridges."

COOK, F. H., business law, an article "Are Earnings Decreasing in the Electric Power Industry," in the May 26 issue of Public Utilities Fortnightly.

ENGASS, art and architectural history, an article, "Baciccio: Two Additions to His Work," in the winter, 1959, issue of The Art Quarterly.

GREENHILL, L. P., DARS, a paper on the use of motion pictures in psychological research at the Colloquium on the Research Film, of the International Scientific Film Association, Roscoff, France, May 26-30.

HARNETT, A. L., physical education, two papers: "The Scope of Health Education," in

the May issue of the Bulletin of the National Association of Secondary School Principals"; "Present Practices in Secondary School Health Teaching," in the April issue of the Journal of School Health.

HARRIS, D. B., psychology, a paper on "A Study of the Modification of Parental Attitudes Toward, and Understanding of, Mentally Retarded Children."

RIEMER, NEAL, political science, an article for *Social Science*, January issue, on "Political Theory as a Guide to Action: Madison and the Prudential Component in Politics."

WHISLER, B. A., civil engineering, a paper titled "The Engineer's Role in Pollution Abatement," at the 8th annual Pennsylvania Clean Streams and Clean Air Conference.

WILKOV, M. A., engineering mechanics, a paper "New Observations Relating to the Mechanism of Fatigue Failure" at the annual meeting of the A.S.T.M. in June, at Atlantic City.

WISLGENUS, Water Tunnel, a paper on "Hydrodynamics and Propulsion of Submerged Bodies," before the semiannual meeting of the American Rocket Society, Inc., at Los Angeles.

Calendar

Monday, June 6

Spring semester ends, 9:50 p.m.

Saturday, June 11

Spring semester commencement, Beaver Stadium, 10:30 a.m. In case of rain, Recreation Building, 10:30 a.m., 1:30 p.m. and 3:30 p.m.

Monday, June 13

Registration for Inter-Session 8:00-11:30 a.m. Registration for first Six-Weeks Session, 1:30-5 p.m. Intersession classes begin, 2 p.m.

Tuesday, June 14

First Six-Weeks Sessions classes begin, 8 a.m.

Thursday, June 16

Registration for Alumni Institute and Class Reunion, 1:30 p.m. in Hetzel Union Building.

Friday, June 17

Alumni Institute program begins, 10:30 a.m. Panel discussion on "Surveying the Sixties: Problems and Possibilities." Assembly Hall, Hetzel Union Building.

Television Broadcasts

WFBG-TV, CHANNEL 10

Saturday, June 4—"From the Bookshelves," with Dr. Lyman C. Hunt, 9-9:30 a.m.

Monday, June 6—Also each weekday, Farm Home and Garden program, 12:30 p.m. Guests: Peter H. Norton, Herbert Jordan, James Gallagher, John Rosenberger, Thomas Kelly.

faculty BULLETIN

Vol. 47, No. 35

June 3, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

MRS T I MAIRS
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Personnel matters

Dr. Raymond W. Swift will retire on June 30 as professor emeritus of animal nutrition after more than 37 years on the faculty. He has been head of the department of animal nutrition since 1946. A graduate of Massachusetts State University in 1920, Dr. Swift came to Penn State in 1923 after working as a chemical analyst in the Mass. Agricultural Experiment Station. He received the master of science degree from Penn State in 1925 and the doctor of philosophy from the University of Rochester in 1931. He is widely known for his research in animal and human nutrition.

Dr. Miriam E. Lowenberg, head of the department of foods and nutrition, was granted an honorary doctor of science degree by Hood College, Frederick, Md., at commencement exercises on June 5.

Dr. Edwin T. Williams, associate professor of chemical engineering, has been appointed professor and head of the department of chemistry and chemical engineering at the Michigan College of Mining and Technology at Houghton, Mich. He will take up his new duties in September, after completing his work as director of the summer institute of nuclear science for instructors at technical institutes. Dr. Williams came here as associate professor of chemical engineering in 1955. He had earned the doctor of philosophy degree here in 1952.

Dr. Bernard R. Jerman, associate professor of English literature, has accepted a position as associate professor at the University of Maryland, and has resigned here effective June 30. He came here in 1952 after having taught

(Continued on page three)

News in brief

► **COMMENCEMENT:** Faculty members who plan to be in the procession at Commencement Exercises on Saturday, June 11, will assemble under the west stands of Beaver Stadium, if the ceremony is held outdoors, and will make use of the team dressing rooms there.

The outdoors ceremony will be held at 10:30 a.m. A decision on where to hold commencement will be made early in the morning, if there is rain or threatening weather, and announcement made over the local radio station.

If outdoor exercises cannot be held, the schedule will provide three ceremonies in Recreation Building. At 10:30 a.m., the Colleges of Engineering and Architecture, and of Mineral Industries, and candidates for associate degrees will assemble. At 1:30 p.m., the Colleges of Agriculture, Education, Home Economics, and Physical Education and Athletics will meet. At 3:30 p.m., the concluding ceremony will include the Colleges of Business Administration, Chemistry and Physics, and the Liberal Arts.

Ample parking has been provided at Beaver Stadium but faculty members are advised to be as early as possible for their own convenience in parking near the stadium. It has been suggested that some may wish to have someone drive them to the stadium and return after the ceremony. Traffic will be one-way going east on Three-Mile Road before the ceremony and going west afterwards. Local and State Police will be on hand to aid campus patrolmen in directing traffic.

If the ceremonies are held indoors, faculty members will assemble under the south balcony for the short procession. Should wives of faculty members planning to be in the procession also wish to attend, they will be admitted, without ticket, to the main floor seats, if they accompany their husbands into the building.

► **RECREATION:** The Summer Recreation program of the University includes a variety of activities for faculty and staff members as well as Summer Session students.

Beginning June 13 (Monday), duplicate bridge will be offered every Monday evening from 7 to 10 p.m. in the HUB card room. A fee of 25c will be charged for membership for the entire summer. Dr. Roger B. Saylor is in charge of the activity.

Square dances will be held each Saturday, starting June 18 in the HUB ballroom or at the Ice Rink. Dancing

starts at 9:00 p.m. except on June 18, when it will start at 9:30 p.m.

The weekly movie will be shown on the lawn south of the HUB at 9 p.m. on Wednesday. Opening feature, on June 15, is "My Man Godfrey." There is no charge.

The Claremont String Quartet returns to the campus for a series of concerts and lecture-recitals. Opening event, on July 8 at 8 p.m., will be held in the assemblyroom of the HUB.

A series of programs by members of the music department faculty and students will get underway on July 10 with an organ recital at 8 p.m. in Schwab Auditorium.

The University Artists Series will present two concerts this summer. On Thursday, June 30, at 8:30 p.m. in Schwab Auditorium, Claude Frank, pianist, will play. Tickets will be on sale for faculty and staff members at the HUB desk on June 28 and 29.

On Aug. 4, Richard Dyer-Bennet, folk singer, will present a program at the ice rink.

► **SPACE:** Dr. Hugh L. Dryden, deputy administrator of the National Aeronautics and Space Administration, will give the dinner address on "Exploration of Space" at the National Applied Mechanics meetings this month. He will speak on June 21.

► **SHELTER:** Architects and engineers will be advised of the latest developments in the design of atomic shelters at two seminars to be held in July. The first, from July 10 to 22, will concentrate on the architectural and engineering planning and preliminary design principles for buildings, shelters, and facilities to resist the effects of nuclear weapons. The seminar from July 24 to Aug. 5 will present principles of design for the structural and radiation shielding systems of these shelters.

Gifford H. Albright, assistant professor of architectural engineering, heads the program, which is offered by Continuing Education Services.

► **DEDICATION:** Hammond Building, the new engineering building on College Ave., was dedicated on Friday, June 3 in honor of the late Dr. Harry P. Hammond, who was the fourth dean of the College of Engineering and Architecture, serving from 1937 until his retirement in 1951.

► **PATENT:** A surgical device to remove stones lodged in body conduits, such as kidneys and bile ducts, has been invented by Benjamin W. Niebel, pro-

(Continued on page two)

(Continued from page one)

fessor of industrial engineering, and Dr. Foreny D. Winner, Lock Haven surgeon, and patented by the U.S. Patent office.

Called a "calculus disintegrator," the device replaces extensive surgery, probing, and similar methods customarily used in this work.

The two inventors have worked together for several years on instruments for modernizing this and similar operations. Six other instruments developed by them are currently awaiting patents.

► **LIBRARY:** The Pattee Library has announced its schedule of hours for the summer. During Inter-Session, June 12 to July 3, Monday through Thursday, open from 7:50 a.m. to 9 p.m.; Friday, 7:50 a.m. to 5 p.m.; Saturday, 9 a.m. to 5 p.m.; closed Sunday. During Mid-Session, the same hours will prevail except that on Sunday, the Library will be open from 2 to 10 p.m.

► **HONORS:** Of the more than 2,500 students to receive degrees tomorrow at Commencement Exercises, nearly 170 will be graduate with honors, including 127 candidates for bachelor's degrees and 31 for associate degrees.

Students attaining an average of 3.80 are graduated with highest distinction, those with 3.60 to 3.79 with high distinction, and those with 3.40 to 3.59 with distinction.

► **GIFT MATCHING:** The Titan Metal Co. of Bellefonte and HRB-Singer, Inc., of State College, have joined the list of industries which have established corporate-alumnus gift matching programs to aid the University. Under this plan, individual gifts made by employees to their alma maters are matched by the industry.

At HRB-Singer, Inc., there are 130 graduates of the University in full-time employment and at Titan Metal 42.

In all, some 56 companies now aid the Penn State Alumni Fund through this program. More than 1,400 alumni of the University are employed by these companies.

► **TOUR:** Dr. Joseph Alessandro, associate professor of education, will direct a tour of South America this summer to be taken by 15 Pennsylvania graduate students, as part of his course on "Comparative Education."

This is the second year he has taken a group to Latin American countries. The group will spend 45 days touring Guatemala, Panama, Colombia, Ecuador, Peru, Chile, Argentina, Uruguay, Brazil, and Puerto Rico, visiting points of historic, geographic and cultural interest, conferring with ministers of education, and visiting public schools. They will also take part in seminars

with university faculty members and visit sugar and coffee plantations.

► **CONTRIBUTORS:** Twelve members of the faculty are among the consulting editors and contributors to the Encyclopedia of Science and Technology soon to be published by McGraw-Hill. It is a 15-volume work.

Participating faculty members are G. W. Brindley, Frank Dachille, D. E. Davis, D. E. H. Frear, B. F. Howell, Jr., K. V. Manning, E. W. Mueller, William Spackman, Rustum Roy, H. B. Sprague, Thomas Wartik, G. W. Wislicenus.

► **ALUMNI:** Many faculty and staff members will participate in the Alumni Institute and Class Reunion program next week. On Thursday, at 8 p.m., Michael Lynch will give a color slide presentation in the HUB assembly room, to open activities.

On Friday, a panel discussion on "Surveying the Sixties: Problems and Possibilities," will have L. P. Greenhill as moderator, with Sidney Bowhill, D. H. McKinley, William Smith, Jr., and H. I. Tarpley as panelists. This will be held at 10:30 a.m. in the HUB assembly room.

At 2:00 p.m. and at 3:30 p.m. various faculty members will give lectures in the popular vein. They include Vernon Aspaturian, O. D. Bowlin, Mary Willard, David C. Whitmarsh, Jr., Russell Whaley, G. S. Zoretich, Ruth Silva, Robert Meahl, Philip Young, Miriam

Lowenberg, Monroe Newman, and Maurice Mook. Lectures are in Osmond Laboratory.

On Saturday, campus bus tours will be conducted in the morning and at 12:30 p.m. the All-Class Luncheon will be held in Recreation Building.

At 2:30 p.m., the annual awards program will be held in Schwab Auditorium, with the presentation of Distinguished Alumni Awards and of the Penn State Woman of the Year award. President Eric A. Walker will give his annual report on "The State of the University."

At 9 p.m. there will be an All-Class Square Dance in the HUB Ballroom.

At 9 a.m. and again at 10:55 a.m. on Sunday, Worship Services will be held in the Helen Eakin Eisenhower Chapel, with music by the Alumni Choir.

Faculty members and other residents of the area are invited to attend the Alumni Institute panel and the lectures, tickets for which they may obtain at the registration desk in the HUB. They are also invited to attend other events, and, in particular, to see the entertainment in connection with the All-Class luncheon in Rec Hall, on Saturday.

► **ELECTED:** Ray S. Tannehill, of Philadelphia, has been re-elected president of the Penn State Alumni Association. Re-elected vice presidents were Harley L. Swift, Harrisburg, and George J. Bair, Corning, N.Y.

Newly elected members of the Athletic Advisory Board are John E. Branigan, of State College, and R. Burns George, of Latrobe, succeeding H. L. Stuart, of State College, and Carl B. Seeds, Washington, D.C. They were elected by the Alumni Council.

► **PLAYERS:** Penn State Players will open its 1960-61 season with the Center Stage production of "Romanoff and Juliet," starting Oct. 14. Other Center Stage shows will be "Summer and Smoke"; "The Three Sisters" and "The Pleasure of His Company."

At Schwab Auditorium, the season will open with "Oedipus Rex" on Dec. 8, 9 and 10 and continue with "Rashomon" on Mar. 2, 3, and 4; and "Babes in Arms," a musical, on May 11, 12, and 13.

► **CONFERENCE:** A regional conference on research on educational media will be held at the University on Oct. 3, 4, and 5. The conference is part of a nationwide program on the dissemination of research on more effective use of radio, television, films, and related media for education, under the National Defense Education Act. Among those helping to plan the conference with Dr. A. W. VanderMeer, associate dean of the College of Education, are Dr. C. R. Carpenter and L. P. Greenhill, division of academic research and services.

Calendar

Saturday, June 11

College of Home Economics Coffee Hour, 8:30 to 9:30 a.m., Maple Room, Home Economics Building.

Commencement Exercises, Beaver Stadium, 10:30 a.m. In case of rain, Recreation Building, 10:30 a.m. (Colleges of Engineering and Architecture, Mineral Industries, and associate degree candidates); 1:30 p.m. (Agriculture, Education, Home Economics, and Physical Education and Athletics); 3:30 p.m. (Business Administration, Chemistry and Physics, and the Liberal Arts).

Monday, June 13

Registration for Inter-Session 8:00-11:30 a.m. Registration for First Six-Weeks Session, 1:30-5 p.m. Inter-Session classes begin, 2 p.m. Duplicate Bridge, 7 to 10 p.m., HUB card room.

Tuesday, June 14

First Six-Weeks Session begins, 8 a.m.

Wednesday, June 15

Outdoor movie, 9 p.m., on lawn south of HUB. "My Man Godfrey."

Thursday, June 16

Registration for Alumni Institute and Class Reunion, 1:30 p.m., in Hetzel Union Building.

Friday, June 17

Alumni Institute program begins, 10:30 a.m. Panel discussion on "Surveying the Sixties: Problems and Possibilities." Assembly Hall, Hetzel Union Building.

Saturday, June 18

Square dance, 9:30 p.m., Hetzel Union Building ballroom.

Television Broadcasts

Monday, June 13 — Also each weekday, Farm Home and Garden program, 12:30 p.m. Guests: A. R. Keniston, Les Nichols, Russell Seward, Clair Delong, James Pound.

Personnel —

(Continued from page one)

at the University of Kentucky. He has published numerous articles in scholarly journals and his book, "The Young Disraeli" will be published this month by Princeton University Press and in the fall by the Oxford University Press in England.

Dr. George U. Oppel, professor of engineering mechanics, has been appointed a consultant to the Ordnance Research Laboratory in connection with the structural design of shells.

John Fenton, now completing work for a doctor of philosophy degree at Princeton University, will join the University on Sept. 1 as research associate in religion, a position financed jointly by the Chaplain's Office and the Westminster Foundation. His research will also be supported by a grant of \$1,500 from the Board of Christian Education and Publication, of the Evangelical and Reformed Church. He is a graduate of Davidson College, N.C., and studied at the University of Marlborough, Germany, as a Rotary Scholar, for one year.

Hobson Pittman, who teaches oil painting during the Summer Sessions, has received the Columbia University Brevoort-Eckemeyer Prize. The \$1000 painting prize is granted every five years on the recommendation of the National Academy of Design, of New York, "to the person who, by his work, is deemed most worthy of the prize."

Col. Lucien E. Bolduc has resigned as chief of the Campus Patrol, but plans to continue his residence in State College. He came to the University in 1951 as professor of military science and tactics and continued in that position until his retirement from the Army in 1955. He had completed more than 36 years of service with the Army. Capt. John F. Galaida, supervisor of security, is acting chief.

Col. Robert E. Smith, Jr., U.S. Marine Corps, has been assigned to the University as professor of naval science, succeeding Capt. John P. Roach, who has held the post for the past three years, and who will become chief of staff of the Fourth Naval District in Philadelphia. Col. Smith was last stationed in Japan where he was Assistant Chief of Staff, G-2 (Intelligence) of the First Marine Aircraft Wing. He is a graduate of the University of Georgia.

► **COFFEE HOUR:** June graduates of the College of Home Economics will be honored prior to Commencement on Saturday, June 11, at a coffee hour from 8:30 to 9:30 a.m. in the Maple Room of the Home Economics Building. Also in attendance will be the families of the graduates.

Senate Minutes

MINUTES OF THE MEETING OF JUNE 2, 1960

The University Senate met at 4:15 p.m. on Thursday, June 2, 1960 in Room 121 Sparks Building with President Eric A. Walker presiding. The secretary read a correction to the minutes of the May 5 meeting which had been printed in the Faculty Bulletins for May 20 and 27, 1960. On page two, column one, line five of the Faculty Bulletin for May 27 change the word "three" to "four". The minutes as corrected were approved. One hundred sixty-seven senators signed the roll.

Communications of University Officers

Letters naming substitutes were received from senators unable to be present and naming substitutes. The substitute is designated in parenthesis following the name of the senator: Iline Fife (R. S. Brubaker), D. H. Ford (J. D. Ashby), H. E. Goodwin (R. M. Poccrass), D. E. Hardenbergh (L. W. Hu), E. L. Keller (T. S. Goas), Helen S. Kinsloe (E. S. Lindstrom), R. W. Lange (R. A. Bartoo), E. B. McCoy (A. R. Gray), G. K. Nelson (Jay Hirsch), E. R. Queer (E. R. McLaughlin), R. G. Winter (Peter Signell), and G. M. Torkelson (W. J. Page).

From Ben Euwema, Dean of the College of the Liberal Arts:

The Liberal Arts faculty, at its meeting on May 12, 1960, unanimously endorsed certain proposals with respect to the library. One of the recommendations stipulated that "the faculty, through a University Library Committee, should assume an active part in all major library decisions."

It is our feeling that the University Library Committee could be re-activated and given a more comprehensive charge, but that it would be wiser to refer the question to the development of the library to the Committee on Educational Policy. We hope this can be done.

President Walker referred this communication to the Senate Committees on Educational Policy and on Research Policy.

From Ben Euwema a second communication:

The Liberal Arts faculty, at its meeting on Tuesday, May 24, accepted proposals for certain curricular changes. During the course of the debate, a resolution was introduced to the effect that R.O.T.C. courses be made voluntary rather than compulsory. The motion was carried by a majority vote. It is, therefore, my duty to refer this resolution to the Senate. I assume it should be referred to the Senate Committee on Educational Policy.

The President referred this communication to the Senate Committee on Educational Policy and to the Senate Committee on Military Instruction.

New Senator

R. P. Meahl will serve as acting head of the Department of Horticulture from July 1, 1960 through December 31, 1960 while R. E. Larson is on leave of absence.

President Walker introduced Col. R. E. Smith, U.S.M.C. who is replacing Capt. J. P. Roach as professor of Naval Science.

Reports of Standing Committees

A. D. Brickman, Chairman of the SENATE COMMITTEE ON ACADEMIC STANDARDS, presented the report which had been distributed with the agenda as appendix "A" regarding "Minimum Standards for University Honors Programs." Mr. Brickman moved adoption of the recommendation that

the minimum grade point average of 3.00 currently required for retention of students in Honors programs be reduced to 2.50.

The motion was seconded and passed. The complete report is on file in the office of the secretary.

A. W. Hutchison, Chairman of the SENATE COMMITTEE ON CONTINUING EDUCATION POLICY, presented the report which had been distributed with the agenda as appendix "B" regarding certain statements which had been referred back to the Committee from the May meeting of the Senate. Mr. Hutchison moved

adoption of the revised recommendations numbered one, two, and three, as follows:

It is recommended that

1. all academic departments, divisions, schools and colleges assume the responsibility for providing for Continuing Education (including Extension) in interdisciplinary courses and programs as well as within their own specializations and curriculums. It is their responsibility to provide budgetary and personnel support. Where the size and scope of Continuing Education programs warrant, these duties should become a part of the regular work load of faculty members.

2. a committee, including representatives from all interested Colleges and with the representative from the College of Education serving as chairman, be appointed and charged with responsibility for selecting or developing a group of courses to serve as a core for the training of personnel in the field of Continuing Education.

3. all academic departments, divisions, schools and colleges be charged specifically with responsibility for providing a variety of training experiences in Continuing Education in their areas of competence.

The motion was seconded. Monroe Newman raised the question as to whether the academic departments were to finance Continuing Education and stated it would be impossible with the present budget. A. H. Reede stated that it was the intention of the Committee that all academic departments, divisions, schools, and colleges assume the responsibility for providing for Continuing Education. The motion was passed.

Mr. Hutchison then moved adoption of recommendation number five revised as follows:

5. the Administrative Committee on Continuing Education be charged with responsibility for reviewing and approving all informal educational programs. This would not include review of such activities as demonstration meetings, help to individuals, and other similar programs conducted by the Cooperative Agricultural and Home Economics Extension Service.

The motion was seconded and passed. The complete report is on file in the office of the secretary.

C. W. Pierce, Chairman of the SENATE COMMITTEE ON COURSES OF STUDY, presented the report which had been distributed with the agenda as appendix "C" and moved adoption of the proposals as recommended. The motion was seconded.

O. R. MacKenzie, on behalf of the Faculty of the College of Business Administration, moved that proposals numbered 537, 538, 539, and 540 on page 13 of the report (being proposed new courses Pl Sc 575, Pl Sc 576, Pl Sc 577, and Pl Sc 578) be recommitted to the Senate Committee on Courses of Study for further study. The motion was seconded. Mr. MacKenzie further stated that his motion was not based on jurisdiction but on duplication of material and that the College of Business Administration was asking for a review of the proposed new courses. After discussion by Messrs. MacKenzie, Pierce, McGeary, and Ferguson the amendment was lost.

A. W. VanderMeer, for the College of Education, thanked the members of the faculties of other Colleges in the University for their deliberations relative to the Common Freshman Year in the College of Education as proposed in this report as item No. 397.

The motion as presented by Mr. Pierce was passed. The complete report is on file in the office of the secretary.

Mr. Pierce then presented the report which had been distributed with the agenda as appendix "D" a "Review of Curriculums With Small Enrollments" and moved adoption of the recommendations as follows:

1. Those Colleges having small enrollment problems continue to review and revise their course and curriculum offerings in accordance with the report of the Subcommittee on Educational Policy (see the Faculty Bulletin of May 9, 1958).

2. In order to encourage Colleges to continue their efforts in this area the subject of small enrollment curriculums and majors should be reviewed again by the Courses of Study Committee two years hence. (The Secretary of the Senate to remind the Chairman of the Senate Commit-

tee on Courses of Study of the need for such a review by the Spring of 1962).

The motion was seconded and passed. The complete report is on file in the office of the secretary.

R. E. Larson, Chairman of the SENATE COMMITTEE ON EDUCATIONAL POLICY, presented the report of the SENATE COMMITTEE ON EDUCATIONAL POLICY and the SENATE COMMITTEE ON ADMISSIONS which had been distributed with the agenda as appendix "E" regarding the "Policy Concerning Enriching or Accelerating the Education of Superior High School Students". He moved adoption of the two policy recommendations to provide opportunities for the superior high school student to enrich or accelerate his education:

1. A superior high school student, upon the recommendation of his principal and the department representative of the subject matter area in which the course is offered, shall be permitted to take The Pennsylvania State University associate or baccalaureate degree level resident or correspondence courses. The student shall follow the usual registration procedures for course enrollment.

2. Subsequent use of credits towards an associate or baccalaureate degree shall be determined by the Dean of the College in which the student desires to enroll. The motion was seconded and passed.

Joseph Marin, Chairman of the SENATE COMMITTEE ON RESEARCH POLICY, presented the report on "Library Facilities" which had been distributed with the agenda as appendix "F" and moved adoption of the two recommendations as follows:

1. Starting July 1, 1960, a portion of the overhead from federal, State, and industrial research contracts be allocated to the Library, these funds to be primarily used for the purchase of books and periodicals.

2. The administration be requested to find additional funds to provide for both an increase in the number of library books and periodicals as well as for an increase of library staffs where needed.

The motion was seconded. H. A. Cutler moved to amend the report by deleting the fourth sentence which reads:

Strong evidence of our library deficiencies is the fact that our library has been refused membership in the Association of Research Libraries.

He stated he felt the statement was incorrect since the University Library had not applied for admission in the Association of Research Libraries. The motion on the amendment was seconded and passed. After considerable discussion by Joseph Jordan, E. F. Osborn, C. I. Noll, Alberta Siegel, and Joseph Marin the motion was passed as amended. The amended report is as follows:

LIBRARY FACILITIES

The Research Policy Committee wishes to endorse and support the efforts being made by individual Colleges in the University to obtain improved library facilities for graduate study and research. From the standpoint of research, we find that the library facilities at The Pennsylvania State University are inadequate. This inadequacy handicaps the overall research and graduate program of the University. In most educational areas of the University, our needs are primarily for an appreciable increase in the number of books and periodicals.

It is, therefore, recommended that:

1. Starting July 1, 1960, a portion of the overhead from federal, State, and industrial research contracts be allocated to the Library, these funds to be primarily used for the purchase of books and periodicals.

2. The administration be requested to find additional funds to provide for both an increase in the number of library books and periodicals as well as for an increase of library staffs where needed.

J. M. Anderson, Chairman of the SENATE COMMITTEE ON RULES, presented the report which had been distributed with the agenda as appendix "G" and moved to amend the first sentence of Rule E-3 of the Regulations for Undergraduate Students, 1959-60 (with the remainder of the rule to be unchanged) and the addition of a new Rule B-5. The motion was seconded and passed. The report as adopted is as follows:

The Senate Committee on Educational Policy requests a modification of the Undergraduate Rules to permit a *Junior Year Abroad Program*. This program is presently handled in individual cases by the Office of Admissions and the Deans of the Colleges.

The Rules Committee finds that this program reduces the number of credits earned in residence in the last two years and involves a program which should be explicitly formulated in the Senate Regulations for Undergraduates. It recommends the following changes and additions in the rules:

E-3. A candidate for a first bachelor's degree shall earn at least 60 of the last 75 credits required in his curriculum by enrollment in courses on the University Park Campus or in supervised field work as defined in Rules B-1a and B-1c, or in leave status to study abroad as defined in Rule B-5. (Remainder of rule to be unchanged.)

B-5. A student with an average of 2.50 or higher may be granted leave status to spend his Junior year abroad in study at an approved institution. Prior approval of his program by the Office of Admissions and the Dean of his College is required to obtain such a leave.

(Continued next week)

German course

A course in the methods and materials of teaching German will be offered this summer, to be taught by C. Richard Beam, graduate student in German.

Involved will be children of area residents for demonstration classes. Parents who have children interested and able to join should communicate promptly with Beam, at 612 S. Allen St., State College. Preference will be given to children who have had little or no foreign language instruction. It is expected that the children will attend all the classes, which will be held two or three times weekly, at 9 a.m.

Purpose of the course, for adults, is to acquaint them with techniques which will develop a mastery of the German sound system, oral mastery of the basic structure of German, as well as the ability to read and write. Those presently teaching German in public schools and others planning to teach in the future are expected to enroll.

To demonstrate desirable and effective techniques in teaching children, two groups of children will be used, one of youngsters in the eight-year age bracket and a second of junior high age.

Press accepted

The Association of American University Presses has accepted the Pennsylvania State University Press as a regular member.

The Association's Committee on Admissions and Maintenance of Standards voted unanimously for admission and the full membership of the Association voted its approval on May 24.

Some 50 college and university presses are members of the association.

faculty BULLETIN

Vol. 47, No. 36

June 10, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY

32

faculty BULLETIN

Weekly Publication
The Pennsylvania
State University

Adolf given award

First recipient of the Louis H. Bell Memorial Award is Dr. Helen Adolf, professor of German. The award is made to the faculty member submitting the best book manuscript to the University Press each year.



Helen Adolf

The award carries with it a cash prize of \$1,000 and all the royalties earned by the book. The prize is made available through the Penn State Alumni Fund.

Miss Adolf's manuscript, "Visio Pacis: Holy City

and Grail," concerns itself with the Grail symbol, which she demonstrates was evolved from the loss of the Holy Sepulchre in the fall of Jerusalem in 1187. She provides new interpretations of the Grail legend.

Before coming to this country from her native Austria, Miss Adolf lectured and did research in the field of modern languages and Germanic and Romance languages. She taught in private schools in Colorado and Virginia before joining the faculty at the Altoona Campus in 1943. She has been at University Park since 1946. Two years ago she was the first to be named Liberal Arts Research Scholar.

The Bell award honors Louis H. Bell who served the University for 24 years until his death in 1958. He was director of public information and University editor for 15 years and was instrumental in founding the University Press in 1956, serving as its executive director.

Dickson named superior teacher

Dr. Harold E. Dickson, professor of the history of art and architecture, was cited at Commencement Exercises last Saturday as the 1960 winner of the Superior Teaching Award. Eleven other faculty members were given citations for excellence in teaching.

A member of the faculty for 37 years, Dr. Dickson joined the staff a year after graduation from Penn State with a bachelor of science degree in architectural engineering. He subsequently earned master of arts and doctor of philosophy degrees from Harvard.

His research has been in the area of Pennsylvania art to a large degree and



Dickson

his publications include "A Working Bibliography of Art in Pennsylvania"; "A Hundred Pennsylvania Buildings"; and "Pennsylvania Painters"; as well as a book, "John Wesley Jarvis, American Artist."

The Superior Teaching Award consists of a plaque and \$1,000.

Winners of the awards for excellence in teaching, which carry \$100 awards are:

John W. Breneman, professor of engineering mechanics since 1922.

Dr. Walter Coutu, professor of sociology since 1944.

Hazel F. Daniels, assistant professor of elementary education since 1950.

Dr. Norman C. Deno, associate professor of chemistry since 1956.

Charles C. Dillio, associate professor of mechanical engineering since 1941.

Gilma M. Olson, associate professor of foods and nutrition since 1939.

Dr. Reed T. Phalan, associate professor of business law since 1950.

Dr. John J. Schanz, Jr., associate professor of mineral economics since 1948.

Dr. Isador M. Sheffer, professor of mathematics since 1929.

Charles M. Speidel, professor of physical education since 1927.

Dr. James E. Wright, professor of genetics since 1949.

Personnel matters

VISITING PROFESSORS

Elaine de Kooning, Hobson Pittman, and Chen Chi, all noted artists and art teachers, for the summer programs in art.

For summer programs in psychology, the following: Dr. Donald B. Meyer, director of Ohio State University's Laboratory of Physiological and Comparative Psychology; Dr. Alfred Butler, Laurelton State Village director of psychological research; Dr. Irving Coblenz, chief of training, Veterans Ad-

(Continued on page four)

News in Brief

► **SECURITY:** G. Christopher Callan, who since 1948 has been chief of the Special Inquiry Section of the Federal Bureau of Investigation, has been appointed director of the University's department of security, effective July 15.

Announcement of the appointment was made by A. E. Diem, vice-president for business administration, who said that a spreading vandalism and growing losses in laboratory equipment and prize livestock combined with the need to effect operating economies, prompted the decision to strengthen the University's security program.

Callan completed 25 years of service to the F.B.I. in November, 1959. He is a graduate of Georgetown University and Georgetown Law School.

► **DEBATES:** The series of radio-television debates between Senators Joseph S. Clark and Hugh Scott will be preserved in the Pennsylvania Historical Collections at Pattee Library.

Films of the series, together with transcripts of each debate, are being provided to the Library as fast as they become available. To date, two films of the 1959 series and six of the 1960 programs have been received.

In addition to Senators Clark and Scott, other noted personalities have appeared from time to time in the series, including Senators J. William Fulbright, Hubert Humphrey, Thomas H. Kuchel, and Henry M. Jackson, Congressman Aime Forand, Admiral Arleigh Burke, and Dean George Marion Johnson.

► **MILESTONE:** The University graduated its 75,000th student, since 1861, at Commencement last week. Granted the honor of being designated the 75,000th graduate was Donald L. McCreary, of Selinsgrove, married and the father of one child. He graduated with highest distinction, one of 15 baccalaureate candidates to be so honored. The total number of graduates is now 76,225.

► **TRUSTEE:** Charles L. Packard, 1928 graduate of the University in agricultural economics and owner and operator of Ore Hill Orchards, Roaring Spring, has been elected to the Board of Trustees.

(Continued on page four)

Senate Minutes

(Continued from last week)

J. F. Bradley, Chairman of the SENATE COMMITTEE ON SCHOLARSHIPS AND AWARDS, presented the report which had been distributed with the agenda as appendix "H" on "Recommendations for 'All-University' Scholarships Administered by The Pennsylvania State University." Mr. Bradley stated that the Senate Committee on Scholarships and Awards had recommendations on a scholarship policy for consideration by the Board of Trustees and the Administrative Staff. While it is true that the Board of Trustees has the power to accept or reject scholarships and the terms within each scholarship, the Committee had certain suggestions that it believes will advance the educational goals of the University. Mr. Bradley further stated there ought to be a good many scholarships without any geographic restrictions. If Penn State is to become a national and international seat of learning, students with superior academic records should not be barred from scholarships because their residence happens to be in Indiana, Switzerland, Brazil, Korea, or some other such place. The intent of the Committee is to raise the average size of scholarships. Although it suggests \$200 as a minimum, it does not consider this exact amount as sacred. He moved adoption of the report. The motion was seconded. After discussion by W. H. Powers and R. G. Stoner the motion was passed. The report is as follows:

PART ONE

*Recommendations for "All-University"
Scholarships Administered by The
Pennsylvania State University*

Preamble

The Pennsylvania State University should continue to make systematic efforts to acquire funds for such scholarships. These efforts should be integrated with the long-range goals of the University. Such scholarships should be governed by principles which are in accordance with sound educational policies. The guiding principles set forth below should govern the minimum standards incorporated in such scholarships.

Definitions

Scholarships. These forms of academic recognition shall be granted on the basis of scholastic achievement. The amount of the stipend, however, may vary with the need of the recipient (see suggested minimum under Minimum Standards for New Scholarships).

Awards, Medals, and Prizes. These forms of academic recognition shall be granted on the basis of scholastic achievement, but without regard to the need of the recipient.

Grants-in-Aid. These forms of recognition shall be granted on the basis of economic need, service to the University, or participation in extracurricular activities.

Minimum Standards for New Scholarships

Donors should be encouraged to establish unrestricted scholarships that can be awarded to any student at the discretion of the University.

Special care should be exercised to avoid the following restrictive provisions: geographic restrictions regarding the residence of the recipient, restrictions regarding the sex of the recipient, restrictions requiring that the recipient accept employment with the donor, and restrictions based on the race, religion, or beliefs of the recipient.

Donors should be encouraged to establish scholarships that carry larger annual stipends. A minimum annual award of \$200 per scholarship should be established as a goal. Small contributions to scholarship funds may be accepted but such funds should be pooled and then distributed in accordance with the suggested minimum. All scholarship donors should be given appropriate recognition.

Minimum Standards for Such Scholarships

Now in Existence

It is recommended that the University take the appropriate steps to alter current scholar-

ships (where necessary) to meet the above minimum standards.

Jurisdiction

Scholarships for which students in more than one College are eligible shall continue to be administered by the Senate Committee on Scholarships and Awards.

Scholarships for which students in only one College are eligible shall continue to be administered by a faculty committee in the respective College.

PART TWO

The Senate Committee on Scholarships and Awards recommends that the Colleges of the University seek to attain the applicable minimum standards stated above.

The report of the SENATE COMMITTEE ON COMMITTEES which had had the approval of President Walker was distributed at the meeting as follows:

SENATE COMMITTEES—1960-61

ACADEMIC STANDARDS — Brickman, A. D., Chairman, Bowman, J. S., Vice Chairman, Conger, R. M., Davison, H. M., Ford, D. H., Hayes, J. R., Kniffin, F. W., Livingston, J. E., Neuberger, H. H., Riebel, L. Jeanne.

ADMISSIONS — Stoner, R. G., Chairman, Goodwin, H. E., Vice Chairman, Anderson, B. G., Burcik, E. J., Fouraker, L. E., Hall, F. T., Jr., Harms, Irene, Moyer, J. H., Stodart, C. W., Jr., Bernreuter, R. G., ex officio.

ATHLETICS — Wherry, R. H., Chairman, Perez, L. J., Vice Chairman, Bratzler, J. W., Kieth, M. L., Niebel, B. W.

CALENDAR AND CLASS SCHEDULE — Whisler, B. A., Chairman, Peikert, F. W., Vice Chairman, Guest, L. P., Read, H. J., Raney, G. N., Miller, J. E., ex officio, Weaver, P. C., ex officio, Hill, Roberta (Student), Manley, Francis (Student).

COMMITTEES — Josephson, D. V., Chairman, Noll, C. I., Vice Chairman, Bixby, P. W., Houghton, Dorothy, Kautz, R. W., Perez, L. J., Ridge, J. D., Striedieck, W. F., Sykes, C. M.

CONTINUING EDUCATION POLICY — Hutchison, A. W., Chairman, Reede, A. H., Vice Chairman, Gates, Ruth, Hager, C. F., Harnett, A. L., Hutton, H. K., John, M. E., Jones, D. C., Knerr, H. W., McCord, R. E., Keller, E. L., ex officio.

COURSES OF STUDY — Shelley, P. A., Chairman, Saylor, R. B., Vice Chairman, Ayres, Ruth W., Campbell, W. P., Dixon, J. A., Griffiths, J. C., Ricker, R. R., Vierck, R. K., Watrous, G. H., Jr., Dennis, L. E., ex officio, Schilling, H. K., ex officio.

EDUCATIONAL POLICY — Schanz, J. J. Jr., Chairman, Rackley, J. R., Vice Chairman, Cook, F. H., Fenske, M. R., Morgan, Winona, Murray, R. K., Sprague, H. B., Tarpley, H. I., Thiel, G. N., Williamson, M. A., Dennis, L. E., ex officio.

FACULTY AFFAIRS — Sommer, L. H., Chairman, McClay, D. R., Vice Chairman, Adams, Martha, Colwell, R. M., East, Marjorie, Ferguson, J. H., Hartman, H. L., McGarey, D. G., Pendered, N. C., Thuerling, G. L.

MILITARY INSTRUCTION — Rayback, J. G., Chairman, Smith, C. J., Vice Chairman, Baer, E. E., Bates, T. F., Lloyd, W. A., Pashek, R. D., Patrick, R. B., Thompson, S. E., Washko, J. B., Cain, W. J., Jr., ex officio, Glenn, H. R., ex officio, Richie, E. B., ex officio, Smith, R. E., ex officio.

RESEARCH POLICY — Marin, Joseph, Chairman, Matson, F. R., Vice Chairman, Charnbury, H. B., Curry, H. B., Dunne, H. W., Gray, A. R., McAulay, J. D., Montgomery, J. E., Rank, D. H., Strong, E. P., Osborn, E. F., ex officio.

RULES — Anderson, J. M., Chairman, VanOrmer, E. B., Vice Chairman, Stevens, G. Z., Waters, R. H., Bernreuter, R. G., ex officio.

SCHOLARSHIPS AND AWARDS — Bradley, J. F., Chairman, Bissey, L. T., Vice Chairman, Beittel, K. R., Durant, Della, Fox, J. A., Gobble, J. L. Jordan, Joseph Lowenberg, Miriam, Mook, M. A.

STUDENT AFFAIRS — Newman, Monroe, Chairman, Olson, Gilma, Vice Chairman, Fife, Iline, Jacobson, A. H., Lattman, L. H., Bernreuter, R. G., ex officio, Lipp, Dorothy J., ex officio, Simes, F. J., ex officio, Haber, Richard,

President, Student Government Ass'n, ex officio, Clagett, Donald, Vice-President, Student Government Ass'n, ex officio, McPherson, Margaret, President, Women's Student Government Ass'n, ex officio.

STUDENT AFFAIRS — (Sub-Committees)

ACADEMIC HONESTY — Kinsloe, Helen, Chairman, Carnahan, F. L., Vice Chairman, Matson, Margaret, Cohen, Sheila (Student), Crosby, Jack (Student).

ORGANIZATION CONTROL — Black, Alex, Chairman, O'Brien, H. J., Vice Chairman, Riemer, Neal.

DISCIPLINE — Newman, Monroe, Chairman, Walmer, John.

NOTE: Other members of committee as provided for under Article 2, Section 1, n-4 of the Senate By-Laws.

James Gemmell, Chairman of the SENATE COMMITTEE ON FACULTY AFFAIRS, presented the report which had been distributed at the meeting on a "Faculty Club Proposal." Mr. Gemmell stated that after two years study the Committee is of the opinion that we ought to proceed with the establishment of a Faculty Club immediately. He moved the acceptance of the report and requested authorization from the Senate to continue work with representatives of the administration to develop a specific, definitive proposal that will be presented to the Senate next Fall for approval. The motion was seconded and passed. The report is as follows:

FACULTY CLUB PROPOSAL

"Following a major study of the problem, the Senate Committee on Faculty Affairs is convinced that the need for and interest in a Faculty Club is sufficient to warrant its establishment immediately. As the result of conferences with members of the central administration, plus on-the-spot examination of possible locations and facilities, the Committee believes that the project should be launched in a modest way with a minimum capital outlay. As the Club grows, more permanent and spacious quarters can be sought. With this in mind, the Committee recommends the renovation of existing facilities rather than a major construction program at this time. The Committee has made a preliminary study of the following locations for the Faculty Club:

1. Present servants' quarters on the third floor of the Nittany Lion Inn
2. Present nursery in the Home Economics building
3. Second floor suite of three rooms in the Nittany Lion Inn
4. Third floor suite of three rooms in the Nittany Lion Inn
5. Space in the bridge area between the old and new Home Economics Building
6. Irvin Hall facilities now used by the Housing Department
7. Waring Hall lounge.

Therefore, the Committee moves the acceptance of this report and requests authorization from the Senate to continue work with representatives of the administration to develop a specific, definitive proposal that will be presented to the Senate next Fall for approval."

Comments and Recommendations for the Good of the University

President Walker announced that he had testified before the Governor's Commission in Harrisburg on May 25, 1960 and that quite a few members of this faculty have been working with the Commission. He is sure that the University as a whole is doing a good job, and he is grateful to the people who have worked so hard on preparing the testimony.

He also announced that members of the Pennsylvania Chamber of Commerce and members of the Board of Trustees are on Campus this week.

Commencement exercises for June 11 will be held in the new stadium provided there is no rain, otherwise three exercises will be held in Recreation Building.

The next regular meeting will be on October 6, 1960. The agenda will be distributed on September 22, 1960.

The meeting adjourned at 5:30 p.m.

Robert G. Bernreuter
Secretary

Confederate theater did well

DR. Iline Fife, associate professor of speech, has a natural affinity for the South and a professional interest in the theatre. Therefore it is not unusual that she has combined the two into a study on which she reported at the recent Southern Speech Convention.

Title of her talk was, "The Confederate Theater: A Barometer," and in it she described the status of the theatre in the South just prior to and during the Civil War. The story is an interesting revelation of the attitudes of the people of the Confederacy as exemplified by the world of the stage in those unhappy days.

A graduate of the University of Texas, Dr. Fife earned master's and doctor's degrees from Louisiana State University. She has taught at Midwestern University, at Wesleyan College in Macon, Ga., and in a Texas high school before coming to Penn State in 1950. At these schools she was interested in the theater as well as in speech, and she has written extensively on the subject.

In 1860, she relates, the winter theater season in the South began about as usual. Most of the larger cities had at least one theater and others provided a hall of some sort for passing companies of players. In Macon, for example, there was a hall over a restaurant which specialized in oysters.

In October, a new theater was opened in Montgomery, Ala., and John Wilkes Booth was scheduled as the star attraction for the opening. He was delayed until a few weeks later, but meanwhile the resident stock company began performances. During the season in Montgomery, many "stars" appeared, since the city was a natural stopping point for those enroute from and to New Orleans. Many established actors, such as Maggie Mitchell, who had earned reputations on the New York or London stage, appeared on Southern stages.

Doubt War

In spite of increasing tension, attendance was good during the winter and slackened off only a little towards spring. The election of Lincoln, secession of some states, and the talk of war to the contrary, people didn't seem to think that the quarrel between North and South would actually come to war. There was a spirit of gaiety, and the press took pains to point out that "the crowds at the theatre are the elite, beauty, and intelligence of our city."

Montgomery, Ala., was crowded with

soldiers, delegates, and office seekers on Feb. 4, 1861, when the convention was called to form the Confederacy. Attendance at the theatre in Montgomery was excellent, but soon to be affected by the course of events.

Exodus in 1861

Recruiting and training of the new army became more important than the mimic life of the stage during 1861 and there was a general exodus of stage managers and actors from the South to the North and to England. By fall, however, the early excitement of the war had been expended and efforts were made to rebuild the theater. In Richmond, the new capitol of the Confederacy, the theater was reopened for legitimate drama and in Charleston, S. Carolina, a group of children, later known as the Queen Sisters, began amateur theatrical entertainments for the benefit of the war effort. The few actors who had remained in the South when theaters closed found places in the various companies being formed. This was a period of reorganization and growth for the Confederate theater.

"The reopening of the theaters and the support of them was manifestation of the optimism of the people and officers of the South," says Dr. Fife. "After all, there were no indications that this was to be a long and destructive war. The South had won battles and had a formidable array of military talent—Longstreet, Jackson, Beauregard, Johnston, and Lee—and it was the consensus that the 'Yankee' was not a serious foe."

In the next two years the Confederate theater reached its peak, in both quality and quantity. Some plays, written during the War years, reflected the partisan spirit of the times, but Shakespeare, *The Rivals*, *The School for Scandal*, and other standards were also on the bill of fare. Many actors developed during the period, later to make their mark on the New York stage. Truly "Southern drama" was encouraged.

In the 1862-1864 period, the North, although inflicting heavy losses on the South, had yet to really win a victory and dissatisfaction in the North with the lack of progress was well known in the South. There was jubilation in the South, too, when Stonewall Jackson made a daring move or Jeb Stuart rode his cavalry around McClellan's army. Also, Southerners felt that they were defending their homes and their rights, so morale was high.

But in the late spring of 1864, the

theater began to feel the effects of the dwindling fortunes of the South. There were transportation difficulties, when a troupe, scenery, or costumes would not arrive on time. Scenery and costume materials were hard to get and redecoration and repair of the theater buildings was impossible. But the most severe problem was the loss of men, to join the army, to be conscripted, or to desert to the North or to England. At times, there were so few men available that women played male roles, to the disapproval of the press.

With a lack of actors of experience, Shakespeare was forgotten and "local dramas" were used instead. Sometimes soldiers were pressed into duty as actors, especially in mob scenes; their "buddies" in the audience assisted them with cheers, jeers, and other noises.

By now the audience had lost its earlier characterization and soldiers and the "great unwashed" had taken over. It was said that if an actor could hold the attention of a soldier-audience long enough to be heard for five minutes, he was considered a hero by his fellow actors.

The newspapers in 1864 urged the theaters to remain open, to show the North the Confederate States were unafraid, but in spite of this the theater in Augusta, Ga., had to close to be used as a hospital during the battle for Atlanta, and in Richmond the theater closed briefly during the summer because of the Wilderness campaign.

Inflation

In the latter days of the War, Confederate currency devaluated rapidly and this was evidenced in the price of theater tickets. In 1861-62 a typical price scale had: gallery, 25c; parquet, 50c; dress circle, \$1.00. In 1864, in Richmond, the prices were: parquet, \$3.00; dress circle, \$5.00; and boxes, \$35.00. But then, sugar was \$10 per pound and corn meal \$40 per bushel.

The decline of the theater was rapid in 1864 and on into 1865, but died only insofar as the term "Confederate" can be applied to it. On April 3, 1865, the City of Richmond was burned by Union forces but the theater was spared. On April 5, an announcement was made that the theater was resuming and that tickets had been sent to General Grant and to President Lincoln. The announcement also said that "new Union jokes" had been prepared and would be used. In Macon, Ga., which was largely spared the fate of other Southern cities, the theater continued right into May and assumed the character of a Union theater.

The wonder of the Confederate theater's life was not that it existed, concludes Dr. Fife, but that it did so much in its four short years.

News —

(Continued from page one)

tees, succeeding Fred E. Bittenbender, by delegates of county agricultural and industrial societies.

Also returned to the Board were J. Collins McSparran, Robert W. Ostermayer, Sr., and G. Albert Shoemaker.

➤ **LOAN FUND:** Is this a trend? Recently a guest speaker at a Continuing Education conference at Erie returned his honorarium to William E. Mosso, district administrator in Continuing Education and coordinator of the conference, with the request that the money be used by the University. At Mosso's suggestion, I. H. Kochel, director of Behrend Campus at Erie, accepted the check to start a student loan fund at Behrend and the fund is now in operation, to aid needy students.

➤ **MERGE:** The departments of animal husbandry and animal nutrition will be merged on July 1 to form the department of animal industry and nutrition. Dr. Russell E. Miller, now head of the department of animal husbandry, will be head of the new department.

Purposes of the merger are to achieve greater balance in resident education and research and to make most effective use of the facilities of the two departments.

➤ **AGRICULTURE:** A reorganization of the program in the College of Agriculture, effective July 1, has been accomplished with a view to broadening the fields of study and consolidate curriculums.

Associate dean and director of resident instruction Russell B. Dickerson explains that all programs in the College except that of landscape architecture have been consolidated into the curriculum designated as agricultural and biological sciences.

Two programs will be offered under this curriculum, Dickerson adds. Program A is designed for students expecting to enter fields of the agricultural and biological sciences as technicians, research workers, college teachers, or other positions requiring science preparation.

Program B is intended for those wishing to prepare for careers in agricultural production, agricultural education, in processing and distribution of farm commodities, in forestry, or in allied fields.

➤ **SLAVIC:** A department of Slavic languages has been established and Dr. Thomas F. Magner, professor of Slavic languages, has been named to head the department.

Although the principal activity of the department will be concerned with the Russian language and literature, attention will also be given to other Slavic cultures of Eastern and Southern Europe.

Enrollment in the 11 undergraduate and two graduate courses in Russian has shown a rapid increase recently and during the Spring semester more than 350 were registered, the maximum that could be handled with the staff available.

Dr. Magner was named to the faculty in August, 1959, coming from the University of Minnesota, where he was associate professor of Slavic and Oriental languages. He is a graduate of Niagara University; Fordham University granted him the master of arts in classical languages; and Yale University conferred the doctor of philosophy in linguistics.

➤ **PLAYHOUSE:** The 1960 season at Mateer Playhouse will open on Monday, June 20 with the play "Visit to a Small Planet," by Gore Vidal. Curtain time is at 8:40 p.m.

Personnel —

(Continued from page one)

ministration Mental Hygienic Clinic, Pittsburgh; Dr. John Pierce-Jones, University of Texas; Dr. Wayne Kirchner, Minnesota Mining and Mfg. Co.; and Dr. Charles Lucas, Cedar Crest College.

Dr. Martin Weinberger, who served during the past year as professor of art and architectural history, has been named distinguished visiting professor for the next academic year.

Dr. Ernest C. Pollard, professor of biophysics at Yale University, has been named distinguished visiting professor of biophysics for the year beginning July 1. He has been at Yale since 1933 and since 1954 has been chairman of the department of biophysics.

RESIGNATIONS

Dr. Joseph V. Smith, associate professor of mineralogy, effective Sept. 1, to become professor of mineralogy and crystallography at the University of Chicago.

Dr. Eva D. Wilson, professor of foods and nutrition, effective July 1, to become associate chairman of home economics, Ohio Agricultural Experiment Station.

Dr. E. F. Olver, director of security, effective Sept. 1, to become associate professor of agricultural engineering, University of Illinois.

Calendar

Friday, June 17

Alumni Institute program begins, 10:30 a.m. Panel discussion on "Surveying the Sixties; Problems and Possibilities." Assembly Hall, Hetzel Union Building.

Saturday, June 18

Alumni program continues. President Walker speaks on "State of the University," Schwab Auditorium, 1:30 p.m.

Square dance, HUB ballroom, 9:30 p.m.

Sunday, June 19

Chapel Service, 9 a.m. and 10:55 a.m., Helen Eakin Eisenhower Chapel. Rev. Preston N. Williams with music by the Alumni Choir.

faculty BULLETIN

Vol. 47, No. 37

June 17, 1960

Published weekly to make official announcements and present items of interest to the faculty and staff of the Pennsylvania State University. Contributions should be brief and reach the Department of Public Information, 309 Old Main, by 5 p.m. each Monday. If addressee is no longer a member of the faculty, please return to 309 Old Main.

W. F. Ackerman, Editor

PENN STATE COLLECTION
PATTEE LIBRARY



PENN STATE COLLECTION



PENN STATE UNIVERSITY LIBRARIES



A000073314608